EMCON/OWT, Inc.
3452 East Foothill Boulevard, 9th Floor
Pasadena, CA 91107-3159
626.304.1500
Fax 626.535.9076

Shaw™ EMCON/OWT, Inc.

November 12, 2004

Mr. Jay Chen, PE
Public Facilities Branch
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765

RE: Bradley Landfill and Recycling Center, Facility ID No. 050310
Rule 1150.1 Third Quarter 2004 Sampling and Analytical Report

Dear Mr. Chen:

Enclosed on behalf of the Bradley Landfill and Recycling Center (BLRC) are the results of third quarter 2004 monitoring activities conducted pursuant to the Rule 1150.1 Compliance Plan for Bradley Landfill, adopted by the South Coast Air Quality Management District on February 18, 1993 and amended on June 19, 2002. The monitoring activities, which included instantaneous and integrated landfill surface monitoring, ambient air sampling, and perimeter probe monitoring/sampling, were conducted in accordance with BLRC's Rule 1150.1 Compliance Plan.

Responsibility for the management of the landfill gas system at BLRC is contracted with EMCON/OWT, Inc., a member of Shaw Environmental, Inc. On May 1, 2004, EMCON/OWT assumed responsibility for the operation and maintenance of the landfill gas collection system and landfill gas processing facility. EMCON/OWT's responsibilities under the contract include monitoring and sampling landfill gas in perimeter probes, at the surface of the landfill, and at the flare stations to comply with Rule 1150.1.

If you have any questions or need additional information regarding this matter, please call me at (626) 304-1508.

Sincerely,

Andrew Washington
Sr. Air Quality Engineer
Shaw EMCON/OWT, Inc.

Encl.

Cc: Bruce Matlock, WMI
Dean Wise, WMI
John Workman, WMI (w/o enclosures)
Darrell H. Thompson, Shaw
Paul Stout, Shaw

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1150.1

THIRD QUARTER 2004 MONITORING REPORT BRADLEY LANDFILL AND RECYCLING CENTER SUN VALLEY, CALIFORNIA

Prepared for

Waste Management of California, Inc.

Bradley Landfill and Recycling Center

November 12, 2004

Prepared by

EMCON/OWT Solid Waste Services
3347 Michelson, Suite 200
Irvine, California 92612

Shaw Project No.: 108341 (03000000)

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Abbreviations

CARB	California Air Resources Board
FID	Flame Ionization Detector
GEM-500	CES-LANDTEC Gas Extraction Monitor
LFG	Landfill Gas
OVA	Organic Vapor Analyzer
PPB	Parts per Billion
PPM	Parts per Million
SCAQMD	South Coast Air Quality Management District
TGNMO	Total Gaseous Non-methane Organic Compounds
TOC	Total Organic Compounds

1 EXECUTIVE SUMMARY

This third quarter report for the year 2004 summarizes the monitoring and sampling results at the Bradley Landfill and Recycling Center (BLRC) for compliance with South Coast Air Quality Management District (SCAQMD) Rule 1150.1(f)(2)(B) and pursuant to the conditions set forth in the Alternative Rule 1150.1 Compliance Plan (SCAQMD Application No. 394147) approved by SCAQMD on June 19, 2002. The Compliance Plan is found in Appendix A

1.1 Site Description and Background

The Bradley Landfill and Recycling Center (BLRC) is located in the Sun Valley District of Los Angeles, California, in the northwest portion of the Los Angeles metropolitan area. The landfill is owned and operated by Waste Management Recycling and Disposal Services of California, Inc. (WMRDSC, formerly Valley Reclamation Company). The site was previously utilized as a sand and gravel pit by Conrock Company. Waste Management of Los Angeles Hauling Company also operates on the BLRC property. The landfill is a Class III waste disposal facility occupying approximately 209 acres. A site map containing the current landfill boundary and locations of landfill gas (LFG) extraction wells is presented as Figure 1.

An active LFG migration/emissions control system has been in operation at the site since 1982. During normal operation, the higher BTU value LFG is processed through the gas treatment plant and delivered to one (1) on-site and one (1) offsite LFG-to-energy facility. Stewart and Stevenson (S&S) currently operates the on-site facility under contract by Waste Management, Inc. The off-site facility is owned by Penrose Landfill Gas Conversion, LLC, formerly owned by 8309 Tujunga Avenue Corporation and operated by Covanta Power Pacific, Inc. The on-site facility operated by S&S was placed into service on March 3, 2003. The lower BTU value gas (under 500 BTU/cf) collected from the Bradley east and the Bradley west perimeter is disposed of through the BLRC flare stations. When the higher BTU value LFG is not in demand by either of the LFG-to-energy facilities, the gas is routed to one of the on-site flare stations where it is combusted in accordance with SCAQMD rules and permit conditions.

1.2 Gas Collection and Disposal System

The BLRC LFG collection and disposal system consists of the LFG Compressor Plant, the gas condensate collection system, three (3) LFG flaring systems, a LFG collection system and five (5) LFG to energy systems. The LFG collection series consist of header collection pipes, laterals, vertical extraction wells and horizontal collectors. Presently the system has 121 vertical dual completion wells, 109 single completion vertical wells and 13 horizontal collectors for a total of 364 wells.

Condensate currently drains by gravity to 18 collection sumps where it is conveyed pneumatically to the LFG treatment plant for processing. When the condensate destruction system is not in use, condensate is passed through the phase separator where the aqueous phase is removed and the hydrocarbon phase is stored. The aqueous phase is pH-adjusted before being discharged to the City of Los Angeles sanitary sewer system. As the hydrocarbon phase is accumulated, it is transferred to the larger hydrocarbon storage tank where it accumulates until transported off-site in accordance with all applicable regulations.

1.3 Monitoring and Sampling Activities Summary

Field activities performed by EMCON/OWT Solid Waste Services (EMCON/OWT) during this quarter included:

- Monthly subsurface perimeter probe monitoring (as required by the Local Enforcement Agency)
- Quarterly integrated surface emission monitoring and sampling for laboratory analysis
- Quarterly instantaneous surface emission monitoring
- Quarterly flare inlet LFG sampling for laboratory analysis
- Quarterly ambient air monitoring (24-hour)
- SCAQMD Rule 431.1 Sulfur Monitoring

AtmAA, Inc. performed the laboratory analysis for four (4) integrated surface emission samples, flare inlet LFG samples, ambient air sample(s), and monthly perimeter probe sample from the probe with the highest field-obtained TOC concentration. The integrated surface samples were analyzed for toxic air contaminants (Toxic Air Contaminants--Core Group; Guidelines for Implementation of Rule 1150.1, Table 1), methane, and total gaseous non-methane organic compounds (TGNMOs) as stipulated by SCAQMD's Rule

1150.1. The flare inlet LFG samples were analyzed for the concentration of fixed gases, hydrogen sulfide, and toxic air contaminants. The ambient air samples were analyzed for toxic air contaminants, methane, and total gaseous non-methane organic compounds (TGNMOs). Toxic air contaminants were analyzed by gas chromatograph/mass spectrometry consistent with Environmental Protection Agency (EPA) Method TO-15. Fixed gases were analyzed by gas chromatograph/thermal conductivity detector and methane using EPA Method 3C Modified. Total gaseous non-methane organics (TGNMOs) were analyzed using modified EPA Method 25C with gas chromatograph/flame ionization detection/total combustion analysis. A gas chromatograph/sulfur chemiluminescence detector was used to analyze for hydrogen sulfide per SCAQMD Rule 431.1, Application No. 267044 and analyzed using SCAQMD Method 307-91.

1.3.1 Subsurface Perimeter Probe Monitoring §1150.1(e)(1)

Monthly subsurface perimeter probe monitoring was performed using a Landtec GEM-2000 LFG monitor during the quarter. Perimeter probes were monitored for percent methane by volume in air.

Alternative monitoring procedures are used in the area of perimeter probe E-8D, including monitoring of the probe and performing surface emission monitoring of Grid 31-D, as specified in the Rule 1150.1 Compliance Plan for Bradley Landfill. These alternative monitoring procedures are implemented when TOC concentrations meet or exceed five (5) percent by volume, measured as methane. Results did not exceed 5percent methane in perimeter probes except for Probe E-8D. Field and laboratory data from subsurface perimeter probe monitoring and laboratory TOC concentrations as methane are discussed in Section 2.2 and presented in Appendix B. Samples from the probe with the highest field-obtained TOC concentrations are sent to AtmAA Inc. for laboratory analysis.

1.3.2 Integrated Surface Emission Monitoring §1150.1(e)(2)

The TOC concentration collected from each grid is listed in Table 3-1, Integrated Surface Sampling Field Summary. Field data sheets are presented in Appendix C. All of the integrated TOC readings were within compliance limits, as set forth by SCAQMD Rule 1150.1. Typically, the two samples having the highest field TOC concentrations are sent to the laboratory for further analysis. The TOC background reading was 5.0 ppm. During surface emissions monitoring, TOC concentrations above background were no more than 3 ppm. In some grids, observed readings were 1 ppm below background. Samples from Grids 111 and 112 were selected for laboratory analysis.

RES Environmental obtained samples from Grids 111 and 112 and submitted them for laboratory analysis for methane, TGNMOs, and Toxic Air Contaminants.

Laboratory analysis of the samples collected from Grid 111 detected low-level concentrations (less than 5 parts per billion [ppb]) of the following constituents: benzene, dichloromethane, carbon tetrachloride, toluene, and xylenes. Laboratory analysis of the samples collected from Grid 111 detected low-level concentrations (less than 5 parts per million [ppm]) of methane and TGNMO.

Laboratory analysis of the samples collected from Grid 112 detected low-level concentrations (less than 5 ppb) of the following constituents: benzene, dichloromethane, carbon tetrachloride, toluene, and xylenes. Laboratory analysis of the samples collected from Grid 112 detected concentrations of methane at 6.55 ppm. Laboratory analysis of the samples collected from Grid 112 detected low-level concentrations of TGNMO (less 5 parts per million [ppm]) of methane. The laboratory reports are presented in Appendix C.

1.3.3 Instantaneous Surface Emission Monitoring §1150.1(e)(3)

Instantaneous surface emission monitoring was conducted on July 14 and 15, August 25 and 26, and September 16, 2004, and consisted of monitoring the landfill surface for the presence of LFG emissions. Total organic compound (TOC) measurements (measured as ppm methane) were recorded in accordance with procedures described in the SCAQMD Guidelines for Implementation of Rule 1150.1. Areas of the landfill where TOC concentrations were greater than 500 ppm TOC as methane were re-monitored within 10 calendar days of the original detection. Instantaneous surface emission monitoring field data are presented in Appendix D.

In July 2004, instantaneous monitoring of Grids 22, 37, 39, 60, 68, 71, and 82 had detected concentrations of 500, 5,000, 100,000, 500, 2,000, 2,000, 2,000 ppm TOC as methane, respectively. These areas were repaired on July 15, 2004 and 10-day re-monitoring occurred on July 21, 2004. All re-monitored areas had concentrations less than 500 ppm. Re-monitored concentrations were 20, 30, 30, 50, 100, 200, and 300 ppm TOC as methane, respectively.

In August 2004, instantaneous monitoring of Grids 3, 23, 24, 37, 71, 107, 108, 111, 112, 118, 123, 124, and 131 detected concentrations of 500, 1,000, 1,000, 5,000, 1,000, 500, 5,000, 100,000, 100,000, 100,000, 5,000, 2,000, and 100,000 ppm TOC as methane, respectively. These areas were repaired on August 26, 2004 and 10-day re-monitoring occurred on September 3, 2004. All re-monitored areas had concentrations less than 500 ppm except for Grid 111. Re-monitored concentrations were 10, 50, 10, 40, 100, 10, 50, 10,000, 50, 50, 50, 50, and 100 ppm TOC as methane, respectively.

A second 10-day re-monitoring for Grid 111 occurred on September 13, 2004 with a detected concentration of 10,000 ppm TOC as methane. In accordance with Rule 1150.1 (e)(2)(C) the owner/operator determined that a new well was needed and scheduled the installation and operation of the new well. The design of the new well began on September 17, 2004. A corrective action plan was finished on September 29, 2004. Actual construction of the well was scheduled for and completed in the fourth quarter of 2004. A summary of the well installation will be reported in the quarterly monitoring report for the fourth quarter.

In September 2004, instantaneous monitoring of Grids 111, 112, 75, 93, 107, and 123 detected concentrations of 20,000, 30,000, 20,000, 100,000, 10,000, 5,000 ppm TOC as methane, respectively. Grids 112, 75, 107, 123 were repaired and 10-day re-monitoring occurred on September 16, 2004. All re-monitored areas had concentrations less than 500 ppm. Re-monitored concentrations were 200, 100, 150, and 100 ppm TOC as methane, respectively. Grids 111 and 93 were repaired and 10-day re-monitoring occurred on September 23, 2004. All re-monitored areas had concentrations less than 500 ppm except for Grid 111. Re-monitored concentrations were 10,000 and 20 ppm TOC as methane, respectively. A second 10-day re-monitoring for Grid 111 occurred on October 1, 2004 with a detected of 25 ppm TOC as methane.

Additional discussion pertaining to grids is discussed in Section 4.2.

1.3.4 Landfill Gas Chemical Analysis §1150.1(e)(4)

LFG samples were collected from the gas compressor inlet location and from each of the three LFG flaring systems on September 27, 2004 and were analyzed for fixed gases, TGNMOs, toxic air contaminants, and hydrogen sulfide. Detected concentrations were normal. Results are discussed in Section 5.2 and provided in Appendix E.

1.3.5 Ambient Air Monitoring (24-hour) §1150.1(e)(5)

Four ambient air samplers were used to collect upwind (south) and downwind (north) samples on September 1, 2004. Two ambient air samplers were positioned upwind at the landfill property boundary and two downwind at the landfill property boundary (Figure 1). Low concentrations of benzene, carbon tetrachloride, chloroform, dichloromethane, toluene, total xylenes, methane, and TGNMOs were detected upwind and downwind of the site, and a low concentration of trichloroethene (TCE) was also present in downwind sample AA-2. Results are discussed in Section 6.2 and field and laboratory data from ambient air monitoring are included in Appendix F.

1.3.6 SCAQMD Rule 431.1 Sulfur Monitoring

Monitoring for total reduced sulfur compounds (TRS) was conducted in accordance with the tier methodology described in the Alternative Monitoring Plan for SCAQMD Rule 431.1, Bradley Landfill, dated April 1, 2003, Application Number 267044. The table below presents the tiered approach, which includes monitoring with colorimetric tubes and the collection of a ten-liter bag sample in a Tedlar bag from each LFG flare and gas plant inlet location. The Bradley Landfill is currently designated with a Tier I Action level.

Action Level	AQMD Modified Tiers	Sampling Requirement
Tier I	TS < 100 ppm	-Quarterly using Method 307-91 -Monthly using TUBE
Tier II	100 ppm ≤ TS <120 ppm	-Monthly using Method 307-91 -Weekly using TUBE
Tier III	120 ppm < TS <130 ppm	-Weekly using Method 307-91 -Daily using TUBE
Tier IV	TS > 130 ppm	-Potential Rule 431.1 Violation -Inform AQMD immediately following R430 Breakdown Provisions -Daily using Method 307-91

Collected samples are analyzed within 24 hours in accordance with SCAQMD Method 307-91. A detailed discussion of the sulfur content is discussed in Section 5.2

Monthly H_2S sampling was conducted on July 23, August 23, and September 27, 2004. Samples were collected in 10-liter tedlar bags and were sent to AtmAA, Inc. for testing as required by Rule 431.1. Analytical results are presented in Appendix E.

Table 1-1
Sulfur Monitoring Results

Date	Daily Maximum Compressor (Gas Sales)	Flare 1 H_2S concentration (ppmv)	Flare 2 H_2S concentration (ppmv)	Flare 3 H_2S concentration (ppmv)
7/23/04	60	12	7.24	22
8/23/04	62	42.6	35.0	18.9
9/27/04	60	58.8	45.8	23.2

1.3.7 Recent Landfill Activity

Landfill operations limited integrated and instantaneous surface emission monitoring. Instantaneous and integrated surface emissions monitoring could not be conducted in grids where active filling was taking place. These areas are shown on Figure 1. In July 2004, active filling locations included Grids 34, 35, 36, 38 and 44. Active filling locations in August 2004, included Grids 46, 47, 48, 49, 51, 54, 55 and 57. In September 2004, active filling locations included Grids 23, 36, 37, 38, 39, 44, 45 and 47.

Grid C monitoring is currently performed on a quarterly basis and the results are presented in Table 3-1.

2 SUBSURFACE PERIMETER PROBE MONITORING §1150.1(e)(1)

2.1 Subsurface Perimeter Probe Monitoring Protocol

Subsurface perimeter probe monitoring was performed in July, August, and September, 2004. Monthly gas samples are collected from perimeter probes yielding the highest field-obtained TOC concentrations in percent by volume, measured as methane. Locations of the subsurface perimeter monitoring probes are shown on Figure 1, Surface Emissions Monitoring Site Plan.

Alternative monitoring procedures were used in the area of perimeter probe E-8D. These procedures include monitoring of the probes and performing surface emission monitoring of Grid 31-D, as specified in the Rule 1150.1 Compliance Plan for Bradley Landfill. The alternative procedures are implemented when TOC concentrations meet or exceed five (5) percent by volume, measured as methane.

Static pressure, in inches of water column, was measured prior to evacuating each probe. Probes were evacuated at a continuous rate until a stable methane concentration was observed. During the third quarter of 2004, a calibrated GEM-2000 Gas Extraction Monitor was used to measure methane by percent volume, methane by percent of LEL, oxygen by percent volume, carbon dioxide by percent volume, balance gas (nitrogen) by percent volume and static pressure in inches of water column.

2.2 Subsurface Perimeter Probe Monitoring Results

Perimeter probes with the highest field-obtained TOC concentrations of methane for each month were selected to be sampled for laboratory analysis of TOC as methane. On July 30th , August 20th and September 20th , 2004 methane was detected in Probe E-8D at 58.5, 34.5, and 20.9 percent, respectively. Since methane was not detected at other probes in July, August and September, Tedlar bag samples were collected only from E-8D. The field TOC concentrations measured as methane for probe E-8D ranged from 20.9 percent in September 2004 to 58.5 percent in July 2004. Laboratory analysis of gas from this probe yield more consistent TOC as methane concentrations. The third quarter 2004 TOC concentrations ranged from 15.6 percent methane (August 2004) to 38.4 percent methane (July 2004). All other probe readings for the quarter were 0 percent methane. Field and laboratory data for perimeter probe monitoring is provided in Appendix B.

Perimeter probes that were selected to be samples, based on the highest field-obtained TOC concentrations for each month are listed below:

Table 2-1
Perimeter Probe Sampling Results

Month	Probe #	Field TOC Concentration (%)	Lab TOC Concentration (%)
7/26/04	E-8D		38.4
7/30/04	E-8D	58.5	
8/20/04	E-8D	34.5	
8/24/04	E-8D		15.6
9/20/04	E-8D	20.9	
9/27/04	E-8D		36.4

3 INTEGRATED SURFACE EMISSION SAMPLING§1150.1(e)(2)

3.1 Integrated Surface Emission Sampling Protocol

The third quarter 2004 integrated surface emission monitoring and sampling was conducted on July 22, 2004. Monitoring and sampling were conducted consistent with SCAQMD's Guidelines for Implementation of Rule 1150.1.

Prior to sampling, the landfill surface was divided into approximate 50,000 square-foot grids with the majority of the grids having dimensions 100 feet by 500 feet. Figure 3, Integrated Surface Grids Location Map, shows the location of each grid.

Integrated surface sampling (ISS) equipment, field protocol, and QA procedures used in this program were derived from the SCAQMD Guidelines for Implementation of Rule 1150.1, in accordance with the compliance plan for the landfill. RES Environmental, Inc. (RES) technicians sampled each grid using the walk pattern and collection rate specified in the guidelines. Each portable Integrated Sampler is comprised of a Tedlar bag, DC pump, and a calibrated flow controller. Each bag sampler is calibrated by a film (bubble meter) calibration method. Each Tedlar bag sample was purged three times with ultra-pure nitrogen before sampling and enclosed in a light-sealed box after sampling. Analyses were performed within 72 hours after sampling was conducted. Tedlar bag QA/QC checklist is in Appendix G.

Wind monitoring data recorded at the on site wind station were reduced to calculate 10-minute average wind speeds for those times when sampling was performed. Each integrated grid sample was collected over a continuous 25-minute period.

RES technicians walked grids at approximate 25-foot intervals for a total of 2,600 linear feet in a period of 25 minutes. The integrated sampler wand was extended to no greater than one inch above the landfill surface. Integrated surface samples were collected at an approximate rate of 333 cubic centimeters per minute (cc/m). The technicians recorded the starting and ending time of each grid traverse, along with the average rotameter flow rate and the prevailing wind speed and direction. An OVA was used to measure the TOC concentration (in ppm, as methane) from each of the 10-liter bag samples collected from the pre-numbered grids.

The landfill sampling grids are divided into types A, B, and C. All grid types are sampled quarterly. Type A surface grids have no exclusions from sampling and sampling is conducted in accordance with Rule 1150.1. Type B surface grids contain steep slopes or steep slopes and dense vegetation. Sampling of Type B grids consists of sampling the toe and top of 128 and 130. Grids 121 and 122, each defined as a Type "B" Grid, have been re-designated as Type "A" Grids due to the additional refuse that has been put in place. Vacuum readings from all LFG extraction wells located within Type B grids are recorded monthly and included in the quarterly report. Type C grids are located in the area of active recycling operations. Sampling of Type C surface

grids are performed quarterly, during the integrated sampling event. Sampling of Type C surface grids consists of sampling a course of 2,600 linear feet but not less than 1,900 linear feet in each grid for a continuous 25-minute period, excluding stockpiles, stored equipment and recycling equipment. Vacuum readings from all gas extraction wells located within Type C active recycling grids are recorded monthly and included in the quarterly report. Vacuum readings recorded in the third quarter from the extraction wells located in Type B and C Grids are presented in Table 3-1.

Due to active landfill operations, integrated landfill surface measurements were not obtained for Grids 34, 35, 36, 38, 44, 46, 47, 48, 49, 51and 54 in July 2004.

Tedlar bag samples from Grids 111 and 112 were sent to AtmAA, Inc., for further analysis of toxic air contaminants, methane, and TGNMOs. Technicians responsible for transporting the integrated samples recorded pertinent information on a chain-of custody form included in Appendix C, Integrated Surface Emission Sampling. Additional personnel, including lab technicians, also recorded their signatures on the chain-of-custody form.

Integrated surface samples were collected when the average wind speed was less than five miles per hour and the instantaneous wind speed was less than ten miles per hour. Integrated samples were not collected within 72 hours of a rainstorm. Wind speed and direction measurements are tracked on the chart included in Appendix C, Integrated Surface Emission Sampling. Weather data taken during integrated monitoring which can be found in Appendix C.

3.2 Integrated Surface Sampling Results

The TOC concentration collected from each grid is listed in Table 3-1, Integrated Surface Sampling Field Summary. Field data sheets are presented in Appendix C. All of the integrated TOC readings were within compliance limits, as set forth by SCAQMD Rule 1150.1. Typically, the two samples having the highest field TOC concentrations are sent to the laboratory for further analysis. The TOC background reading was 5.0 ppm. During surface emissions monitoring, TOC concentrations above background were no more than 2 ppm. In some grids, observed readings were 1 to 2 ppm below background. Samples from grids 111 and 112 were randomly selected for laboratory analysis.

3.3 Integrated Surface Sampling Laboratory Results

Integrated samples were collected from Grid 111 and 112 and were transported to AtmAA, Inc. on August 27, 2004 for further analysis. Table 3-2, Integrated Surface Sampling, Laboratory Summary, lists the laboratory analysis methods and results.

Laboratory analysis by Method TO-15 of the sample from Grid 111 (Lab Sample ID 02404-25), detected benzene, dichloromethane, carbon tetrachloride, toluene, m, p-xylenes, and o-xylene. The TGNMO concentration was 1.09 ppm and the methane concentration was 1.90 ppm.

Laboratory analysis by Method TO-15 of the sample from Grid 112 (Lab Sample ID 02404-26), detected benzene, dichloromethane, carbon tetrachloride, toluene, m, p-xylenes, and o-xylene. The TGNMO concentration was 1.43 ppm and the methane concentration was 6.55 ppm.

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT OVA 128/88
88-ISS Packs

DATE OF SAMPLING: 7/21/04 - 7/22/04 & 8/25/04
TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
1	5	7/22/2004	N/A			
2	5	7/22/2004	N/A			
3	5	7/22/2004	N/A			
4	5	7/22/2004	N/A			
5	5	7/22/2004	N/A			
6	5	7/22/2004	N/A			
7	8	7/22/2004	N/A			
8	7	7/22/2004	N/A			
9	5	7/22/2004	N/A			
10	5	7/22/2004	N/A			
17	6	7/21/2004	N/A			
20	5	7/22/2004	N/A			
21	5	7/22/2004	N/A			
22	8	7/22/2004	N/A			
23	5	7/22/2004	N/A			
24	5	7/22/2004	N/A			
31	8	7/22/2004	N/A			
32	5	7/22/2004	N/A			
33	5	7/22/2004	N/A			
34	5	7/22/2004	N/A			
35	5	7/22/2004	N/A			
36	5	7/22/2004	N/A			
37	5	7/22/2004	N/A			
38	5	7/22/2004	N/A			
39	5	7/22/2004	N/A			
40	5	7/22/2004	N/A			
41	5	7/22/2004	N/A			
42	8	7/22/2004	N/A			
43	6	7/22/2004	N/A			
44	5	7/22/2004	N/A			
45	6	7/22/2004	N/A			
50	5	7/22/2004	N/A			
52	6	7/21/2004	N/A			
53	5	7/21/2004	N/A			
55	5	7/21/2004	N/A			
56	8	7/22/2004	N/A			
57	4	7/21/2004	N/A			
58	5	7/21/2004	N/A			
59	5	7/21/2004	N/A			
60	5	7/21/2004	N/A			
61	5	7/21/2004	N/A			
63	8	7/22/2004	N/A			
64	7	7/21/2004	N/A			
65	6	7/21/2004	N/A			
66	6	7/21/2004	N/A			
67	5	7/21/2004	N/A			

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT OVA 128/88
88-ISS Packs

DATE OF SAMPLING: 7/21/04 - 7/22/04 & 8/25/04
TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
68	5	7/21/2004	N/A			
69	5	7/22/2004	N/A			
70	5	7/21/2004	N/A			
71	5	7/21/2004	N/A			
72	5	7/21/2004	N/A			
73	5	7/21/2004	N/A			
74	5	7/22/2004	N/A			
75	5	7/22/2004	N/A			
76	5	7/21/2004	N/A			
77	5	7/21/2004	N/A			
78	5	7/21/2004	N/A			
79	6	7/21/2004	N/A			
80	5	7/21/2004	N/A			
81	5	7/21/2004	N/A			
82	6	7/21/2004	N/A			
83	5	7/21/2004	N/A			
84	5	7/21/2004	N/A			
85	5	7/21/2004	N/A			
86	5	7/21/2004	N/A			
87	6	7/21/2004	N/A			
88	5	7/21/2004	N/A			
89	5	7/21/2004	N/A			
90	6	7/21/2004	N/A			
91	8	7/22/2004	N/A			
92	5	7/22/2004	N/A			
93	6	7/21/2004	N/A			
94	6	7/21/2004	N/A			
95	6	7/21/2004	N/A			
96	5	7/21/2004	N/A			
97	5	7/21/2004	N/A			
98	6	7/21/2004	N/A			
99	5	7/21/2004	N/A			
100	6	7/22/2004	N/A			
101	5	7/21/2004	N/A			
102	7	7/21/2004	N/A			
103	6	7/21/2004	N/A			
104	5	7/21/2004	N/A			
105	4	7/21/2004	N/A			
106	6	7/21/2004	N/A			
107	5	7/21/2004	N/A			
108	5	7/21/2004	N/A			
109	5	7/21/2004	N/A			
110	5	7/21/2004	N/A			
111	6	7/22/2004	N/A			
113	6	7/21/2004	N/A			
114	5	7/21/2004	N/A			

Table 3-1
Integrated Surface Sampling, Field Summary
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT OVA 128/88
88-ISS Packs

DATE OF SAMPLING: 7/21/04 - 7/22/04 & 8/25/04
TECHNICIAN: RES Environmental Inc.

Grid I.D.	TOC CONCENTRATION (ppmv)	Sample Date	ACTION TAKEN TO REPAIR LEAK	DATE OF REPAIR	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
115	5	7/21/2004	N/A			
116	5	7/21/2004	N/A			
118	5	7/21/2004	N/A			
119	5	7/21/2004	N/A			
120	5	7/21/2004	N/A			
121	7	7/21/2004	N/A			
122	5	7/21/2004	N/A			
123	6	7/21/2004	N/A			
124	5	7/21/2004	N/A			
125	7	7/21/2004	N/A			
126	5	7/21/2004	N/A			
127	5	7/21/2004	N/A			
128	6	7/22/2004	N/A			
129	5	7/22/2004	N/A			
130	5	7/22/2004	N/A			
131	5	7/21/2004	N/A			
132	8	7/21/2004	N/A			
112	10	8/25/2004	N/A			
Active Dumping Areas						
47			N/A			
49			N/A			
46			N/A			
48			N/A			
51			N/A			
54			N/A			

* = Additional 10-liter Tedlar bag samples from Grids 111 and 112 were sent to the lab for further analysis.

Table 3-2
Integrated Surface Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
August 27, 2004

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples			
Compound	**Sample ISS Grid 111 Results (ppbV)**	**Sample ISS Grid 112 Results (ppbV)**	**Reporting Limit (ppbV)**
Hydrogen Sulfide	<50	<50	50
Benzene	0.30	0.44	1.6
Benzyl Chloride	<0.5	<0.5	0.97
Carbon Tetrachloride	0.11	0.11	0.80
Chlorobenzene	<0.1	<0.1	1.1
Chloroform	<0.1	<0.1	1.0
1,1-Dichloroethane	<0.1	<0.1	1.2
1,1-Dichloroethylene	<0.1	<0.1	1.3
1,2-Dibromoethane	<0.1	<0.1	0.65
Dichlorobenzenes(1)	<1.1	<1.1	0.83
Dichloromethane	0.12	0.21	<0.1
1,2-Dichloroethane	<0.1	<0.1	1.2
1,1,1-Trichloroethane	<0.1	<0.1	0.92
Trichloroethene	<0.1	<0.1	<0.1
Perchloroethene	<0.1	<0.1	<0.1
Toluene	1.33	1.46	1.3
Total Xylenes*	0.61	0.59	1.2
Vinyl Chloride	<0.1	<0.1	2.0

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples			
Compound	**Sample ISS Grid 111 Results (ppmV)**	**Sample ISS 112 Results (ppmV)**	**Reporting Limit (ppmV)**
Methane	1.90	6.55	0.5
Total Non-Methane Organics (as methane)	1.09	1.43	1.0

< Not detected at or above the method detection limit.
*Total xylenes reported includes the sum of the detected concentrations of m-& p-xylenes and o-xylenes.
(1) total amount containing meta, para, and ortho isomers

Table 3-3
LFG Well Data for
"B" and "C" Monitoring Grids
Third Quarter 2004
Bradley Landfill and Recycling Center
Sun Valley, California

Device ID	Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Stat Press (In. H20)	Flow (Scfm)	Temperature (DegF)	Comments	Grid Type
BR000001	8/16/2004 14:09	30.1	30.3	0.3	39.3	0.1	26	97	1/2 Open	C
BR000002	7/8/2004 8:16	38.3	35.2	0	26.5	-0.6	7		Full open	C
BR000002	8/16/2004 13:55	38.6	36.7	0.1	24.6	15.8	14	91	Full Open	C
BR000003	9/3/2004 10:00	5.6	9.5	**9.2**	75.7	-1.5	0	0	No thermometer	C
BR000003	Jul-04								Disconnected	C
BR000003	Aug-04								Disconnected	C
BR000004	7/14/2004 15:20	32.6	29.5	0.2	37.7	-10.9	0	97	3/4 open	C
BR000004	8/16/2004 13:29	30.6	27.2	0.3	41.9	3.9	0	116	3/4 Open	C
BR000004	9/3/2004 9:52	27.5	25.7	1.1	45.7	-12.1	0	0	No thermometer	C
BR000005	9/16/2004 10:53	0.8	7.3	5.8	86.1	-0.1	10	99	No chgs made	C
BR000005	Jul-04								Disconnected	C
BR000005	Aug-04								Disconnected	C
BR000006	7/8/2004 8:42	14.1	19.8	0.9	65.2	-25.6	5		1/4 open	C
BR000006	8/16/2004 11:38	9.1	19	0.8	71.1	-8.8	4	86	Min Flow	C
BR000006	9/3/2004 9:40	11.9	19.6	1.6	66.9	-5	1	89	No thermometer	C
BR000007	7/8/2004 9:24	14.5	22.7	0.6	62.2	-0.5	0		1/4 open	C
BR000007	9/16/2004 11:32	12.2	21.4	2	64.4	-0.4	<<<	113	No chgs made	C
BR000007	Aug-04								Disconnected	C
BR000008	7/8/2004 9:27	0.1	1.1	19.6	79.2	-17.5	0		Full open	C
BR000008	8/2/2004 10:34	7	15.4	4.7	72.9	-9	0	74	Min Flow	C
BR000008	9/16/2004 11:25	8.2	16.9	4.5	70.4	-16.1	<<<	112	valves adj. down	C
BR000009	7/8/2004 9:32	33.2	32	0	34.8	-11	44		Min flow	C
BR000009	8/2/2004 10:40	25.4	29	0	45.6	1.5	44	72	Min Flow	C
BR000009	9/16/2004 11:12	27.5	29	0.4	43.1	-8.4	57	120	No chgs made	C
BR000010	7/8/2004 9:43	39.5	34.7	0	25.8	-21.8	0		1/2 open	C
BR000010	8/2/2004 10:22	53.9	42.7	0.1	3.3	3.4	0	75	Min Flow	C
BR000011	7/8/2004 9:50	53.4	39.6	0	7	-4.7	30		1/4 open	C
BR000011	8/16/2004 11:21	0.2	0	20.4	79.4	12.1	25	84	Min Flow	C
BR000014	7/8/2004 8:09	18.8	23.7	0	57.5	-11.9	3		1/2 open	C
BR000014	8/16/2004 14:21	16.6	22.2	0.2	61	0.7	3	92	Min Flow	C
BR000014	9/16/2004 10:33	17.5	23.3	1.2	58	0.3	6	132	Min flow	C

Table 3-3
LFG Well Data for
"B" and "C" Monitoring Grids
Third Quarter 2004
Bradley Landfill and Recycling Center
Sun Valley, California

Device ID	Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Stat Press (In. H20)	Flow (Scfm)	Temperature (DegF)	Comments	Grid Type
BR000015	7/8/2004 8:32	19.1	19.9	0	61	-18.4	1		1/2 open	C
BR000015	8/16/2004 13:34	17.5	20.1	0.1	62.3	15.2	0	86	Min Flow	C
BR000015	9/16/2004 10:38	15	19.1	0.3	65.6	-1	0	100	No chgs made	C
BR000016	7/14/2004 14:24	30.1	29.2	0.2	40.5	-8.5	46	95	1/4 open	C
BR000016	8/2/2004 14:49	29.9	27.3	0	42.8	-0.1	45	83	Min Flow	C
BR000016	9/16/2004 11:02	31.7	27.1	1.1	40.1	-14.7	77	112	No chgs made	C
BR000016	9/16/2004 11:07	25.3	24.7	1.2	48.8	-0.3	54	150	No chgs made	C
BR000017	7/8/2004 8:59	18.7	24.3	0.4	56.6	-25.5	66		Min flow	C
BR000017	9/16/2004 10:58	19.6	23.4	1.3	55.7	-1.1	55	102	No chgs made	C
BR000017	Aug-04								Disconnected	C
BR000018	8/16/2004 11:44	22.6	21.6	0.6	55.2	-8	0	86	Min Flow	C
BR000018	9/16/2004 10:45	16.9	19.5	0.8	62.8	-14	0	112	No chgs made	C
BR000018	Jul-04								Disconnected	C
BR000019	7/9/2004 11:09	42.8	33.9	0	23.3	-8.3	157		Full open	C
BR000019	8/18/2004 13:21	39.6	32.3	0.3	27.8	-11	282	125	Full Open	C
BR000020	7/9/2004 11:30	30.8	26.8	0.1	42.3	-8.3	23		1/4 open	C
BR000020	8/2/2004 15:09	28.4	25.8	0.4	45.4	4.6	23	82	1/2 Open	C
BR000021	Jul-04								Disconnected	C
BR000021	Aug-04								Disconnected	C
BR000022	8/2/2004 14:30	34.2	29.4	2.4	34	-0.1	50	87	3/4 Open	C
BR000022	9/16/2004 11:37	36.8	30.2	3.1	29.9	-18.2	61	110	No chgs made	C
BR000022	Jul-04								Disconnected	C
BR000025	7/8/2004 10:15	61.3	38.6	0	0.1	-3.1	0		Full open	C
BR000025	8/16/2004 14:54	50.1	39.5	0.3	10.1	3.4	0	91	3/4 Open	C
BR000025	9/16/2004 11:47	61.8	37.7	0.4	0.1	-4.3	0	112	No thermometer	C
BR000026	7/9/2004 11:23	52.3	37.4	0	10.3	-15.8	0		Full open	C
BR000026	8/17/2004 11:04	44.5	36.9	0.4	18.2	-2	0	84	Full Open	C
BR000027	7/8/2004 9:37	37.3	29.2	2.7	30.8	-1.7	11		Open	C
BR000027	8/2/2004 10:28	42.5	33.1	1.7	22.7	12.8	14	76	1/4 Open	C
BR000028	7/16/2004 8:48	21.2	27.8	2.1	48.9	0	0	120	Min flow	C
BR000028	Aug-04								Disconnected	C

Table 3-3
LFG Well Data for
"B" and "C" Monitoring Grids
Third Quarter 2004
Bradley Landfill and Recycling Center
Sun Valley, California

Device ID	Date/Time	CH4 (%)	CO2 (%)	O2 (%)	Balance (%)	Stat Press (In. H20)	Flow (Scfm)	Temperature (DegF)	Comments	Grid Type
BR000029	Jul-04								Disconnected	C
BR000029	Aug-04								Disconnected	C
BR000031	7/8/2004 10:23	0.2	0	20.5	79.3	-0.3	0		1/2 open	C
BR000031	9/3/2004 10:38	3.7	15.5	4.2	76.6	-12.9	0	110	No thermometer	C
BR000031	9/16/2004 13:36	3	19.7	0	77.3	-0.2	44	102	No chgs made	C
BR000031	Aug-04								Disconnected	C
BR000033	9/3/2004 10:29	16.8	23.9	0.9	58.4	-2.8	0	120	No thermometer	C
BR000033	9/16/2004 11:44	19.1	25	0	55.9	-0.6	<<<	86	No chgs made	C
BR000033	Jul-04								Disconnected	C
BR000033	Aug-04								Disconnected	C
BR000034	9/3/2004 10:13	8.3	21	0.9	69.8	-3.7	0	0	No thermometer	C
BR000034	9/16/2004 11:15	7.7	21.2	0.1	71	-2.4	<<<	0		C
BR000034	9/16/2004 11:17	7.7	21.2	0.1	71	-2.4	<<<	0	No thermometer	C
BR000034	Jul-04								Disconnected	C
BR000034	Aug-04								Disconnected	C
BR000036	9/3/2004 10:20	4.7	16.1	3.3	75.9	-7.9	2	0	No thermometer	C
BR000036	9/16/2004 11:08	5.7	18	1.3	75	-2.5	18	0	No thermometer	C
BR000036	Jul-04								Disconnected	C
BR000036	Aug-04								Disconnected	C
BR000039	7/13/2004 10:47	8.8	17	2.7	71.5	-3.4	2	91	1/2 open	B
BR000039	8/3/2004 8:37	5.9	16.5	4	73.6	12.8	1	70	1/2 Open	B
BR000039	9/16/2004 10:25	8.4	20.4	1.5	69.7	-2	31	120	No chgs made	B
BR000039	9/16/2004 10:27	8.4	20.4	1.5	69.7	-2	31	120	No chgs made	B

4 INSTANTANEOUS SURFACE EMISSION MONITORING§1150.1(e)3

4.1 Instantaneous Surface Emission Monitoring Protocol

Quarterly instantaneous surface emission monitoring was conducted in July, August and September 2004 by RES Inc. technicians and consisted of monitoring the landfill surface for the presence of LFG surface emissions. Procedures described in the SCAQMD Guidelines for Implementation of Rule 1150.1 were followed.

Instantaneous Surface Monitoring (ISM) was performed using procedures and equipment described in the SCAQMD Guidelines for Implementation of Rule 1150.1, consistent with the compliance plan for the Landfill. A portable flame ionization detector (FID), which meets or exceeds all guideline specifications was used to obtain instantaneous measurements of TOC concentrations immediately above the surface of the grids. Calibrations were performed on the OVA equipment using factory specifications. While traversing the disposal area, the detector probe was held within three inches of the landfill surface to obtain the readings. A surface inspection was also performed during monitoring to identify potential cracks in the landfill cover.

Using the OVA, RES technicians walked a pattern across the landfill surface consisting of linear traverses approximately 100 feet apart at an approximate rate of 100 to 110 feet per minute. TOC measurements were recorded at approximately every 100 linear feet. While monitoring, the OVA wand and funnel assembly was held no further than one inch above the landfill surface.

In addition to walking the traverses, the OVA was used by EMCON/OWT personnel to measure TOC concentrations at landfill surface fissures, along the refuse/natural soil interface, and at corrugated metal pipes, gas extraction wells and other points visually identified as areas potentially having repeatable TOC concentrations greater than 500 ppm.

The landfill sampling grids are divided into types A, B, and C. Type A surface grids have no exclusions from sampling and sampling is conducted in accordance with Rule 1150.1. Type B surface grids contain steep slopes or steep slopes and dense vegetation. Sampling of Type B grids consists of sampling the toe and top of Grids 128 and 130. Vacuum readings from gas extraction well 39, located within a Type B grid is recorded monthly and included in the quarterly report. Twenty-two Type C grids are located in the area of active recycling operations. Sampling of Type C surface grids consists of sampling a course of 2,600 linear feet but not less than 1,900 linear feet in each grid for a continuous 25-minute period, excluding stockpiles, stored equipment and recycling equipment. Vacuum readings from all LFG extraction wells located within Type C active recycling grids are recorded monthly and included in the quarterly report. Vacuum readings recorded in the third quarter from the extraction wells located within Type B and C grids are presented in Table 3-3.

Areas that were not monitored due to landfill operation are shown on Figure 1.

Wind speed and direction were measured using a Climatronics portable meteorological station mounted on the roof of the main office building at the landfill described in Section 7, Field Instrumentation and Equipment Specifications. Measurements were recorded on a continuous strip chart recorder. The wind speed and direction monitor was erected in the central portion of the site away from canyon walls and obstructions, at an approximate elevation of 1,300 feet above mean sea level.

4.2 Instantaneous Surface Emission Monitoring Results

Monitoring measurements obtained during the months of July, August, and September exceeded 500 ppm as methane in Grids 3, 22, 23, 24, 37, 39, 60, 68, 71, 75, 82, 93, 107, 108, 111, 112, 118, 123, 124, and 131. Grids with surface emissions exceeding 500 ppm are shown in Table 4-1. All other grids were below 500 ppm TOC as methane.

Recorded concentrations of TOC as methane ranged from 0.0 to 99,995.0 ppm above background. In accordance with SCAQMD Rule 1150.1 regarding detecting TOC concentrations exceeding 500 ppmv, each of these grids were re-sampled within 10 calendar days of the original detection. Figures 1, 2, and 3 show grids where surface emissions exceeded 500 ppm TOC as methane during instantaneous monitoring. During the period of instantaneous monitoring, the wind speed average was below 5 miles per hour and the instantaneous wind speed was below 10 miles per hour.

Table 4-1
Summary of TOC Readings >500 ppm & Corrective Actions
Instantaneous Surface Sampling
Bradley Landfill and Recycling Center
Sun Valley, California

INSTRUMENT OVA 128/88 SAMPLING PERIOD: 3RD QUARTER 2004
TECHNICIAN: RES

LEAK LOCATION	LEAK CONCENTRATION (ppmv)	DATE OF DISCOVERY	ACTION TAKEN TO REPAIR LEAK	DATE OF ANY REQUIRED RE-MONITORING	RE-MONITORED CONCENTRATION (ppmv)
Grid 022	500	7/15/2004	Repaired Cover	7/21/2004	20
Grid 037	5,000	7/15/2004	Repaired Cover	7/21/2004	30
Grid 039	100,000	7/15/2004	Repaired Cover	7/21/2004	30
Grid 060	500	7/15/2004	Repaired Cover and Installed new sump bolts.	7/21/2004	50
Grid 068	2,000	7/15/2004	Repaired Cover	7/21/2004	100
Grid 071	2,000	7/15/2004	Repaired Cover	7/21/2004	200
Grid 082	2,000	7/15/2004	Repaired Cover	7/21/2004	300
Grid 003	500	8/26/2004	Repaired Cover	9/3/2004	10
Grid 023	1,000	8/26/2004	Repaired Cover	9/3/2004	50
Grid 024	1,000	8/26/2004	Repaired Cover	9/3/2004	10
Grid 037	5,000	8/26/2004	Repaired Cover	9/3/2004	40
Grid 071	1,000	8/26/2004	Repaired Cover	9/3/2004	100
Grid 107	500	8/26/2004	Repaired Cover	9/3/2004	10
Grid 108	5,000	8/26/2004	Repaired Cover	9/3/2004	50
Grid 111	100,000	8/26/2004	Repaired Cover	9/3/2004	10,000
Grid 111			Repaired Cover	9/13/2004	10,000*
Grid 112	100,000	8/26/2004	Repaired Cover	9/3/2004	50
Grid 118	100,000	8/26/2004	Repaired Cover	9/3/2004	50
Grid 123	5,000	8/26/2004	Repaired Cover	9/3/2004	50
Grid 124	2,000	8/26/2004	Repaired Cover	9/3/2004	50
Grid 131	100,000	8/26/2004	Repaired Cover	9/3/2004	100
Grid 075	20,000	9/16/2004	Repaired Cover -Tuned Well	9/16/2004	100
Grid 093	100,000	9/16/2004	Repaired Cover -Tuned Well	9/23/2004	20
Grid 107	10,000	9/16/2004	Repaired Cover -Tuned Well	9/16/2004	150
Grid 111	20,000	9/16/2004	Repaired Cover	9/23/2004	10,000
Grid 111			Repaired Cover	10/1/2004	25
Grid 112	30,000	9/16/2004	Repaired Cover -Tuned Well	9/16/2004	200
Grid 123	5,000	9/16/2004	Repaired Cover -Tuned Well	9/16/2004	100

* After second re-monitoring exceedance, the decision was made to install a new well.

5 LANDFILL GAS SAMPLING §1150.1(e)4

5.1 Landfill Gas Characterization Protocol

A total of four LFG samples were collected from the compressor inlet and from the three (3) LFG flares on August 27, 2004 respectively. A portable pump was used to draw the LFG sample into a 10-liter Tedlar Bag enclosed in a light sealed box. The LFG sample was collected over a continuous ten-minute period.

5.2 Landfill Gas Sample Laboratory Results

Samples BL-001 (Gas Plant), BL-002 (Flare #3), BL-003 (Flare #1), and BL-004 (Flare #2) were taken to AtmAA, Inc. on September 27, 2004. The gas samples were analyzed for toxic air contaminants, TGNMOs, fixed gases, and hydrogen sulfide. Table 5-2, Landfill Gas Sample Laboratory Summary, gives the laboratory methods and results for these constituents. Appendix E, Landfill Gas Sampling includes the laboratory report prepared by AtmAA.

Samples BL-001, BL-002, BL-003, and BL-004 contained detectable concentrations of one or more of the following compounds: benzene, chlorobenzene, 1,1-dichloroethane, 1,1-dichloroethylene, dichloromethane, dichlorobenzenes, 1,2-dichloroethane, trichloroethene, perchloroethylene, toluene, 1,1,1-trichloroethane, vinyl chloride, and total xylenes.

Laboratory results for samples collected from the gas plant and each flare are presented in Appendix E.

5.3 SCAQMD Rule 431. Sulfur Monitoring

Sulfur content of the LFG (as H_2S) leaving the facility is monitored daily, except for weekends and holidays as required by PTO No. R-D229242 A/N 201385, Part 5. According to the colorimetric tube results, the gas compressor did not exceed 100 ppm H_2S during the quarter. The maximum reading during the quarter was 62 ppm H_2S. See Table 5-3 for Quarterly H_2S Monitoring Results.

Table 5-1 Landfill Gas Summary of Results				
Components	Gas Plant (BL-001)	Flare 1 (BL004)	Flare 2 (BL-003)	Flare 3 (BL-002)
TGNMO	13,300 ppmv	8,600 ppmv	14,400 ppmv	4,100 ppmv
Hydrogen Sulfide	53.4 ppmv	23.2 ppmv	58.8 ppmv	45.8 ppmv
Methane	41.4%	30.7%	40.2%	26.4%

Table 5-2
Landfill Gas Sample - Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
September 27, 2004

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples					
Compound	**Gas Plant BL-001 (ppbV)**	**Flare #1 BL-003 (ppbV)**	**Flare #2 BL-004 (ppbV)**	**Flare #3 BL-002 (ppbV)**	**Reporting Limit (ppbV)**
Benzene	6,470	4,770	1,070	14,300	<20
Benzyl Chloride	<40	<40	<40	<40	<40
Carbon Tetrachloride	<30	<30	<30	<30	<30
Chlorobenzene	190	180	251	394	<30
Chloroform	<20	<20	<20	<20	<20
1,1-Dichloroethane	284	366	<30	184	<20
1,1-Dichloroethylene	74.8	109	<40	54.5	<30
Dichloromethane	1,090	1,380	<30	198	<30
1,2-Dibromoethane	<30	<30	<30	<30	<30
Dichlorobenzenes[1]	3,120	2480	1550	942	<30
1,2-Dichloroethane	124.0	121	<20	68.9	<20
Trichloroethene	908	1,010	113	532	<20
Perchloroethylene	2,660	3,060	151	1,530	<20
Toluene	37,600	40,200	4,200	30,000	<20
1,1,1-trichoroethane	26.4	<20	<20	<20	<20
Total Xylenes*	26,930	27,250	11,770	21,640	<20
Vinyl Chloride	158	214	518	408	<20
Compound	**(ppmV)**	**(ppmV)**	**(ppmV)**	**(ppmV)**	**(ppmV)**
Total Non-Methane Organics (as Methane)	13,300	14,400	4,1000	8,600	<20
Hydrogen sulfide	53.4	58.8	45.8	23.2	<0.5
Carbonyl sulfide	0.34	0.39	<0.08	0.097	<0.5
Methyl mercaptan	3.18	4.03	0.63	3.20	<0.06
Ethyl mercaptan	<0.1	<0.1	0.24	<0.1	<0.12
Dimethyl sulfide	7.04	7.08	0.43	8.87	<0.1
Carbon disulfide	0.12	0.078	0.11	<0.06	<0.09
Isopropyl mercaptan	0.34	0.43	<0.06	0.10	<0.06
n-propyl mercaptan	<0.06	<0.06	<0.06	<0.06	<0.06
Dimethyl disulfide	0.52	0.36	0.11	0.49	<0.06
Total reduced sulfur	65.6	71.6	47.5	63.4	<0.5
BTU / ft.3	425	322	270	369	<1

Table 5-2 (Continued)
Landfill Gas Sample - Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
September 27, 2004

SCAQMD Rule 1150.1 Components Analysis in Integrated Surface Tedlar Bag Samples					
Compound	**Gas Plant BL-001 (%,V)**	**Flare #1 BL-003 (%,V)**	**Flare #2 BL-004 (%,V)**	**Flare #3 BL-002 (%,V)**	**Reporting Limit (%,V)**
Nitrogen	18.4	20.0	41.8	34.4	0.1
Oxygen	1.08	1.04	2.32	3.48	0.1
Methane	41.4	40.2	26.4	30.7	0.1
Carbon dioxide	36.5	35.5	26.2	28.2	0.1

ND: Not detected.
*Total xylenes reported includes the sum of the detected concentrations of m-& p-xylenes and o-xylenes.
** = Coeluting Compounds
The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
(1) Total amount containing meta, para, and ortho isomers.

Table 5-3
Quarterly H_2S Monitoring Results
Bradley Landfill, Sun Valley, California

Date	Time	Temp	Compressor (Plant Gas Sales)	Flare 1	Flare 2	Flare 3
7/1/2004	1105	76	55	H2S samples are taken monthly for laboratory analyses.		
7/2/2004	1058	76	50			
7/3/2004	*	*	*			
7/4/2004	*	*	*			
7/5/2004	*	*	*			
7/6/2004	730	57	55			
7/7/2004	1415	83	58			
7/8/2004	1600	84	60			
7/9/2004	1450	88	52			
7/10/2004	*	*	*			
7/11/2004	*	*	*			
7/12/2004	810	75	57			
7/13/2004	917	86	55			
7/14/2004	635	57	50			
7/15/2004	710	65	50			
7/16/2004	1230	92	53			
7/17/2004	*	*	*			
7/18/2004	*	*	*			
7/19/2004	1500	103	57			
7/20/2004	800	78	55			
7/21/2004	815	76	50			
7/22/2004	1109	87	58			
7/23/2004	650	58	55/55.4 (Lab)	12 (Lab)	7.24 (Lab)	22 (Lab)
7/24/2004	*	*	*	H2S samples are taken monthly for laboratory analyses.		
7/25/2004	*	*	*			
7/26/2004	1515	98	57			
7/27/2004	919	78	58			
7/28/2004	1215	88	55			
7/29/2004	1023	81	58			
7/30/2004	1107	83	60			
7/31/2004	*	*	*			
8/1/2004	*	*	*			
8/2/2004	1210	89	52			
8/3/2004	1150	88	60			
8/4/2004	1230	89	62			
8/5/2004	1320	92	52			
8/6/2004	1145	92	55			
8/7/2004	*	*	*			
8/8/2004	*	*	*			
8/9/2004	1045	58	55			
8/10/2004	1200	87	53			
8/11/2004	1120	92	55			
8/12/2004	1015	78	52			
8/13/2004	1130	83	50			
8/14/2004	*	*	*			
8/15/2004	*	*	*			
8/16/2004	515	56	50			
8/17/2004	700	56	55			
8/18/2004	1100	86	50			
8/19/2004	1320	90	57			
8/20/2004	1250	95	50			

Table 5-3
Quarterly H_2S Monitoring Results
Bradley Landfill, Sun Valley, California

Date	Time	Temp	Compressor (Plant Gas Sales)	Flare 1	Flare 2	Flare 3
8/21/2004	*	*	*	H2S samples are taken monthly for laboratory analyses.		
8/22/2004	*	*	*			
8/23/2004	1120	75	50/56(Lab)	42.6 (Lab)	35 (Lab)	18.9 (Lab)
8/24/2004	1138	90	-	H2S samples are taken monthly for laboratory analyses.		
8/25/2004	1215	90	58			
8/26/2004	1300	89	52			
8/27/2004	1230	92	42			
8/28/2004	*	*	*			
8/29/2004	*	*	*			
8/30/2004	1108	84	58			
8/31/2004	1450	90	50			
9/1/2004	1230	95	48			
9/2/2004	1115	90	55			
9/3/2004	1200	90	58			
9/4/2004	*	*	*			
9/5/2004	*	*	*			
9/6/2004	*	*	*			
9/7/2004	1120	88	52			
9/8/2004	1135	90	45			
9/9/2004	1254	89	48			
9/10/2004	745	64	52			
9/11/2004	*	*	*			
9/12/2004	*	*	*			
9/13/2004	Compressor Down		58			
9/14/2004	---	---	54			
9/15/2004	1330	80	50			
9/16/2004	1350	82	52			
9/17/2004	100	75	50			
9/18/2004	*	*	*			
9/19/2004	*	*	*			
9/20/2004	845	64	58			
9/21/2004	910	66	60			
9/22/2004	1105	88	57			
9/23/2004	1442	94	58			
9/24/2004	1117	89	60			
9/25/2004	*	*	*			
9/26/2004	*	*	*			
9/27/2004	1430	64	60/53.4	Tom, Where are my lab results please??		
9/28/2004	1540	62	50	H2S samples are taken monthly for laboratory analyses.		
9/29/2004	1615	68	50			
9/30/2004	1430	66	58			

--- = Data not collected due to plant operator out
* = Data not collected on weekends and holidays

6 AMBIENT AIR SAMPLING§1150.1(e)(5)

6.1 Ambient Air Sampling Protocol

Third quarter 2004 ambient air sampling was performed on September 1, 2004. Sampling was performed consistent with SCAQMD Rule 1150.1, Attachment A.

Four ambient air samplers were used to collect upwind (south) and downwind (north) samples. Two ambient air samplers were placed upwind at the landfill property boundary and two downwind at the landfill property boundary. Figure 1, Surface Emissions Monitoring Site Plan, shows the ambient air sample locations.

The ambient air sampling program was designed in accordance with the Guidelines for Implementation of Rule 1150.1 and the compliance plan requirements issued by the SCAQMD. All procedures and equipment used in the program are consistent with guideline specifications.

The Landfill compliance plan requires the collection of four (4) 12-hour samples located at the landfill perimeter. These 12-hour samples (two each) are representative of the predominant upslope and down slope wind flow patterns during each 12-hour time periods. These locations were selected based upon evaluation of current and historic wind monitoring data collected on site. Sampling stations are positioned to provide good meteorological exposure to the predominant up slope flows and anticipated nighttime local air drainage patterns typically encountered at this site.

Ambient air samplers used at the landfill were constructed, installed, and operated to meet SCAQMD design criteria and performance specifications published in the Rule 1150.1 guidelines. Light-sealed boxes containing individual 10-liter Tedlar sample bags were housed within each sampling station enclosure. Analyses were performed within 72 hours after sampling was concluded

A Climatronics portable wind speed and direction station connected to a continuous recorder was used to record wind speed and direction for the entire duration of integrated sampling. Section 7, Field Instrumentation and Equipment Specifications, describes both the ambient air sampler assembly and the wind station in greater detail. Tedlar bags used for collecting the 24-hour integrated samples were purged three times with nitrogen and

tested for leaks prior to usage. Appendix G, Tedlar Bag Quality Assurance and Control, includes a Tedlar bag checklist that summarizes pertinent data regarding this procedure

The four samples were analyzed for toxic air contaminants, methane, and TGNMOs by AtmAA, Inc. The technicians responsible for transporting the integrated samples recorded pertinent information on a Chain-of-Custody form included in Appendix F, Ambient Air Sampling. Additional personnel receiving the integrated samples recorded their signatures on the Chain-of-Custody form.

Ambient air samples were collected when the average wind speed was five miles per hour or less, and the instantaneous wind speed was less than fifteen miles per hour. The samples were not collected within 72 hours of a rainstorm. Wind speed and direction charts are included in Appendix F.

6.2 Ambient Air Laboratory Results

Upwind ambient air samples (AA-1, AA-4) and downwind ambient air samples (AA-2, AA-3) were sent to AtmAA, Inc. on September 1, 2004 for analysis. Table 6-1, Ambient Air Samples Laboratory Summary, summarizes the laboratory methods and results.

Upwind Samples

Laboratory analysis of sample AA-1 (Lab Sample 02454-1) detected a TGNMO concentration of 1.76 ppmv. The methane concentration was 2.32 ppmv and the toluene concentration was 1.46 ppmv. Laboratory analysis of sample AA-4 (Lab Sample 02454-4) detected a TGNMO concentration of 1.02 ppmv. The toluene concentration was 1.46 ppbv, and the methane concentration was 1.98 ppmv. The presence of methane in upwind samples is likely due to periodic wind shifts during sample collection.

Downwind Samples

Laboratory analysis of sample AA-2 (Lab Sample 02454-2) detected toluene at a concentration of 1.70 ppbv. The TGNMO and methane concentrations were 1.72 and 2.13 ppmv, respectively. Laboratory analysis of sample AA-3 (Lab Sample 02454-3) detected a TGNMO concentration of <1 ppmv. The methane concentration was 1.87 ppmv and the toluene concentration was 1.33 ppmv.

Table 6-1
Ambient Air Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
September 1, 2004

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	**Sample Ambient Air AA-1 Results (ppbV)**	**Sample Ambient Air AA-2 Results (ppbV)**	**Reporting Limit (ppbV)**
Hydrogen Sulfide	<50	<50	50
Benzene	0.26	0.23	1.6
Benzyl Chloride	<0.4	<0.4	0.97
Carbon Tetrachloride	0.12	0.11	0.8
Chlorobenzene	<0.1	<0.1	1.1
Chloroform	0.12	0.12	1.0
1,1-Dichloroethane	<0.1	<0.1	1.2
1,1-Dichloroethylene	<0.1	<0.1	1.3
1,2-Dibromoethane	<0.1	<0.1	0.65
Dichlorobenzene[1]	<1.1	<1.1	0.83
Dichloromethane	0.10	<0.1	<0.1
1,2-Dichloroethane	<0.1	<0.1	1.2
1,1,1-Trichloroethane	<0.1	<0.1	0.92
Perchloroethene	<0.1	<0.1	<0.1
Toluene	1.90	1.70	1.3
Total Xylenes*	0.61	0.57	1.2
Trichloroethene	<0.1	0.11	0.93
Vinyl Chloride	<0.1	<0.1	2.0

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	**Sample Ambient Air AA-1 Results (ppbV)**	**Sample Ambient Air AA-2 Results (ppbV)**	**Reporting Limit (ppmV)**
Methane	2.32	2.13	0.5
Total Non-Methane Organics (as methane)	1.76	1.72	1.0

Table 6-1 (Continued)
Ambient Air Sampling Laboratory Summary
Bradley Landfill & Recycling Center (BLRC)
September 1, 2004

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	**Sample Ambient Air AA-3 Results (ppbV)**	**Sample Ambient Air AA-4 Results (ppbV)**	**Reporting Limit (ppbV)**
Hydrogen Sulfide	<50	<50	50
Benzene	0.22	0.34	1.6
Benzyl Chloride	<0.4	<0.4	0.97
Carbon Tetrachloride	0.11	0.11	0.8
Chlorobenzene	<0.1	<0.1	1.1
Chloroform	0.13	0.11	1.0
1,1-Dichloroethane	<0.1	<0.1	1.2
1,1-Dichloroethylene	<0.1	<0.1	1.3
1,2-Dibromoethane	<0.1	<0.1	0.65
Dichlorobenzene[(1)]	<1.1	<1.1	0.83
Dichloromethane	0.12	0.11	<0.1
1,2-Dichloroethane	<0.1	<0.1	1.2
1,1,1-Trichloroethane	<0.1	<0.1	0.92
Perchloroethene	<0.1	<0.1	<0.1
Toluene	1.33	1.46	1.3
Total Xylenes*	0.61	0.56	1.2
Trichloroethene	<0.1	<0.1	0.93
Vinyl Chloride	<0.1	<0.1	2.0

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples			
Compound	**Sample Ambient Air AA-3 Results (ppbV)**	**Sample Ambient Air AA-4 Results (ppbV)**	**Reporting Limit (ppbV)**
Methane	1.87	1.98	0.5
Total Non-Methane Organics (as methane)	<1	1.02	1.0

7 FIELD INSTRUMENTATION AND EQUIPMENT SPECIFICATIONS

7.1 Meteorological Station

A Climatronics portable meteorological station is used for measuring wind speed and direction during instantaneous and integrated surface sampling, and ambient air monitoring. This monitor collects continuous wind data during all monitoring events. The wind system consists of a Climatronics monitor, equipped with F460 wind sensors with threshold speeds of 0.50 miles per hour and a protable dual channel recording strip chart.

A continuous recorder and battery is housed in a portable steel case to prevent damage to the system. The continuous recorder averages wind speed and direction measurements on a 15-minute increments. Measurements are recorded on a strip chart paper. The date, time, and wind speed and direction measurements are recorded daily after each instantaneous or integrated sampling session is completed.

A supervisor monitored the wind speed during instantaneous and integrated sampling sessions so that technicians are continuously aware of the wind speed when walking traverses or grid patterns.

7.2 Organic Vapor Analyzer

A portable Organic Vapor Analyzer (OVA) manufactured by Foxboro was used for monitoring the surface emission concentration of total organic compounds (TOCs) during instantaneous monitoring, and for measuring TOC concentrations in integrated surface samples and perimeter probes (ppm range). The OVA used had the minimum specifications:

- Range: 0-10,000 ppm (v/v)
- Minimum detectable limit: 5 ppm
- Response time: 15 seconds
- Flame out indicator: audible and visual
- Accuracy: +/-4%
- Precision: +/-3%

- Ambient temperature: 0-50 degrees Celsius

7.3 GEM-500 Gas Extraction Monitor

A GEM-500 Gas Extraction Monitor, manufactured by LANDTEC for use at landfills, was used for monitoring LFG composition. Compounds measured include methane, carbon dioxide, oxygen, and balance gas as nitrogen in percent volume and methane as percent of LEL.

The GEM-500 Specifications are as follows:

	Sensor Range Imperial	Resolution Imperial
Methane - CH_4:	0-100%	0.1%
Carbon dioxide – CO_2:	0-75%	0.1%
Oxygen – O_2:	0-100%	0.1%
Pressure (differential):	0-10" w.c.	0.01" w.c.
(static):	0-100" w.c.	0.1"w.c.

GEM-500 Typical Accuracy:

Concentration	%CH_4 by Volume	%CO_2 by Volume	%O_2 by Volume
5% LEL	+/- 0.3%	N/A	+/- .25%
75%	+/- 1.9%	+/- 3.0%	N/A
100%	+/- 1.95%	N/A	N/A

7.4 GEM-2000 Gas Extraction Monitor

A GEM-2000 Gas Extraction Monitor, manufactured by LANDTEC for use at landfills, was used for monitoring LFG composition. Compounds measured include methane, carbon dioxide, oxygen, and balance gas as nitrogen in percent volume and methane as percent of LEL.

The GEM-2000 Specifications are as follows:

	Sensor Range Imperial	Resolution Imperial
Methane - CH_4:	0-100%	0.1%
Carbon dioxide – CO_2:	0-100%	0.1%
Oxygen – O_2:	0-25%	0.1%
Pressure (differential):	0-10" w.c.	0.01" w.c.
(static):	0-100" w.c.	0.1"w.c.

GEM-2000 Typical Accuracy:

Concentration	%CH_4 by Volume	%CO_2 by Volume	%O_2 by Volume
0-5%	+/- 0.5%	+/- 0.5%	+/- .25%
5-15%	+/- 1%	+/- 1%	N/A
15%-FS	+/- 3%	N/A	N/A

7.5 Integrated Surface Sampler

Each portable Integrated Sampler is comprised of a Tedlar bag, DC pump, and a calibrated flow controller. Each bag sampler is calibrated by a film (bubble meter) calibration method. Each Tedlar bag sample was purged three times with ultra-pure nitrogen before sampling and enclosed in a light-sealed box after sampling. Analyses were performed within 72 hours after sampling was conducted.

7.6 Tedlar Bags

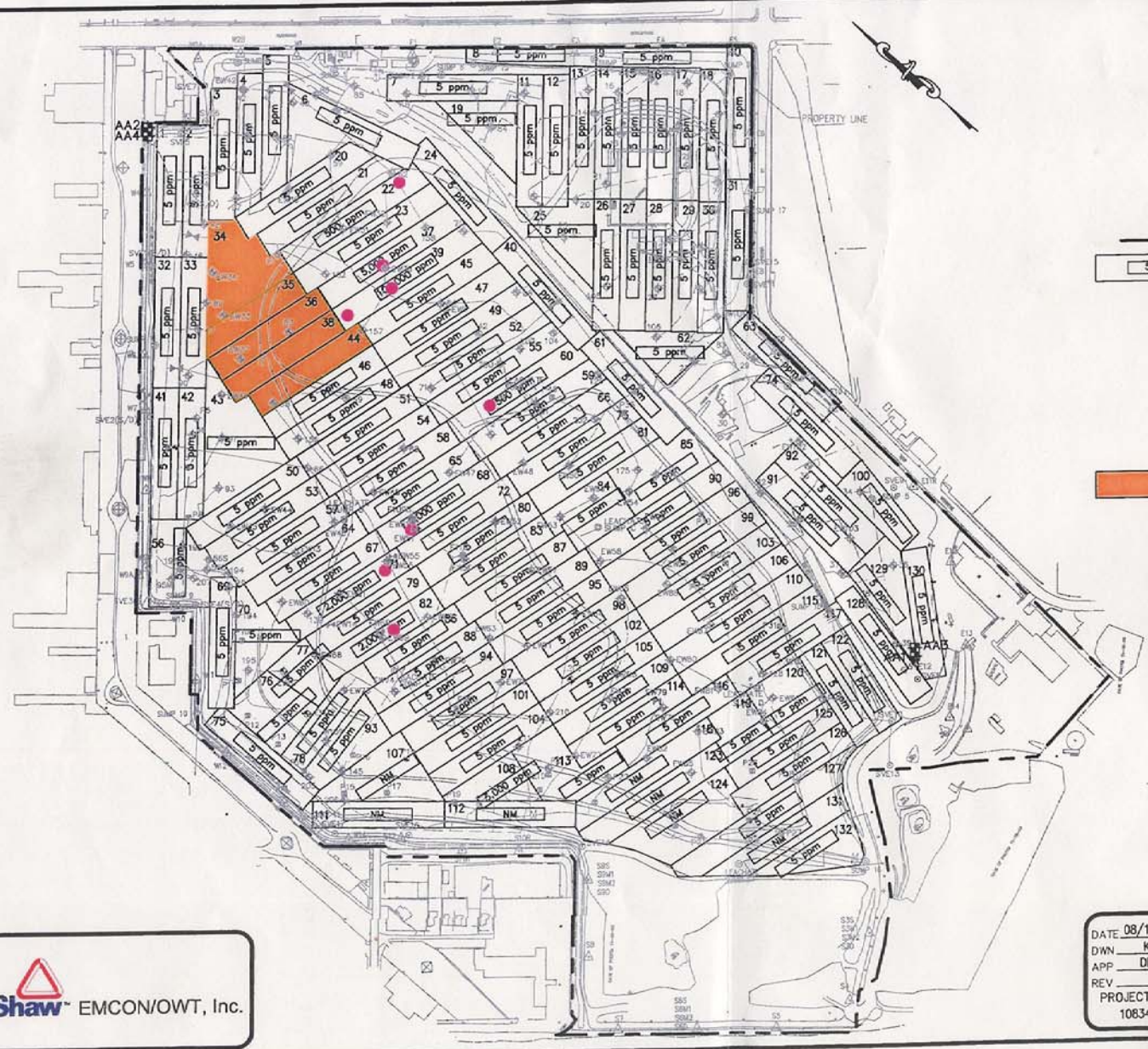
Ten-liter bags, made of Tedlar material, were used to collect integrated samples, and for the collection of the raw gas sample at the main gas conveyance line. Each Tedlar bag, prior to use, is filled with nitrogen for a minimum of 24 hours and checked for leaks. Each used Tedlar bag is purged three times with nitrogen and refilled with nitrogen for a minimum of 24 hours and checked for leaks. Each Tedlar bag is numbered for tracking purposes and each number corresponds with the number of the integrated sampling grid.

LIMITATIONS

The services described in this report were performed consistent with generally accepted professional consulting principles and practices. No other warranty, express or implied, is made. These services were performed consistent with our agreement with our client. This report is solely for the use and information of our client unless otherwise noted. Any reliance on this report by a third party is at such party's sole risk.

Opinions and recommendations contained in this report apply to conditions existing when services were performed and are intended only for the client, purposes, locations, time frames, and project parameters indicated. We are not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. We do not warrant the accuracy of information supplied by others, nor the use of segregated portions of this report.

FIGURES



LEGEND

- PROPERTY BOUNDARY
- 5 ppm — INTEGRATED SURFACE SAMPLING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 — UP WIND SAMPLER
- AA2 — DOWN WIND SAMPLER
- AA3 — DOWN WIND SAMPLER
- AA4 — UP WIND SAMPLER
- READINGS OVER 500 ppm JULY 2004
- ACTIVE AREA, JULY 2004

NOTES:

1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEASURED IN PARTS PER MILLION (PPM) AS METHANE.
2) BACKGROUND TOC READING WAS 5 ppm.
3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
4) AA = AMBIENT AIR MONITORING STATION.

0 400 800

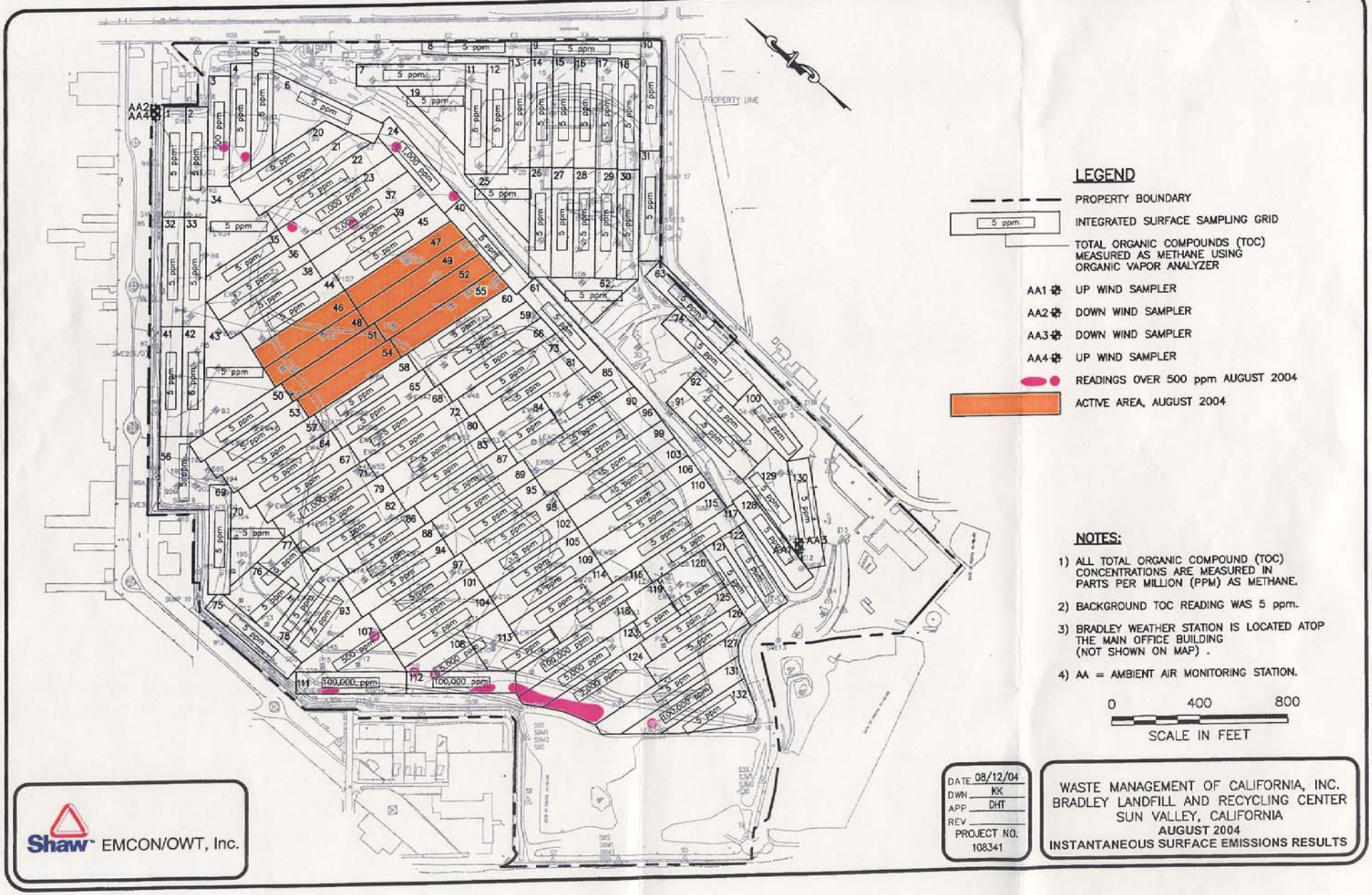
SCALE IN FEET

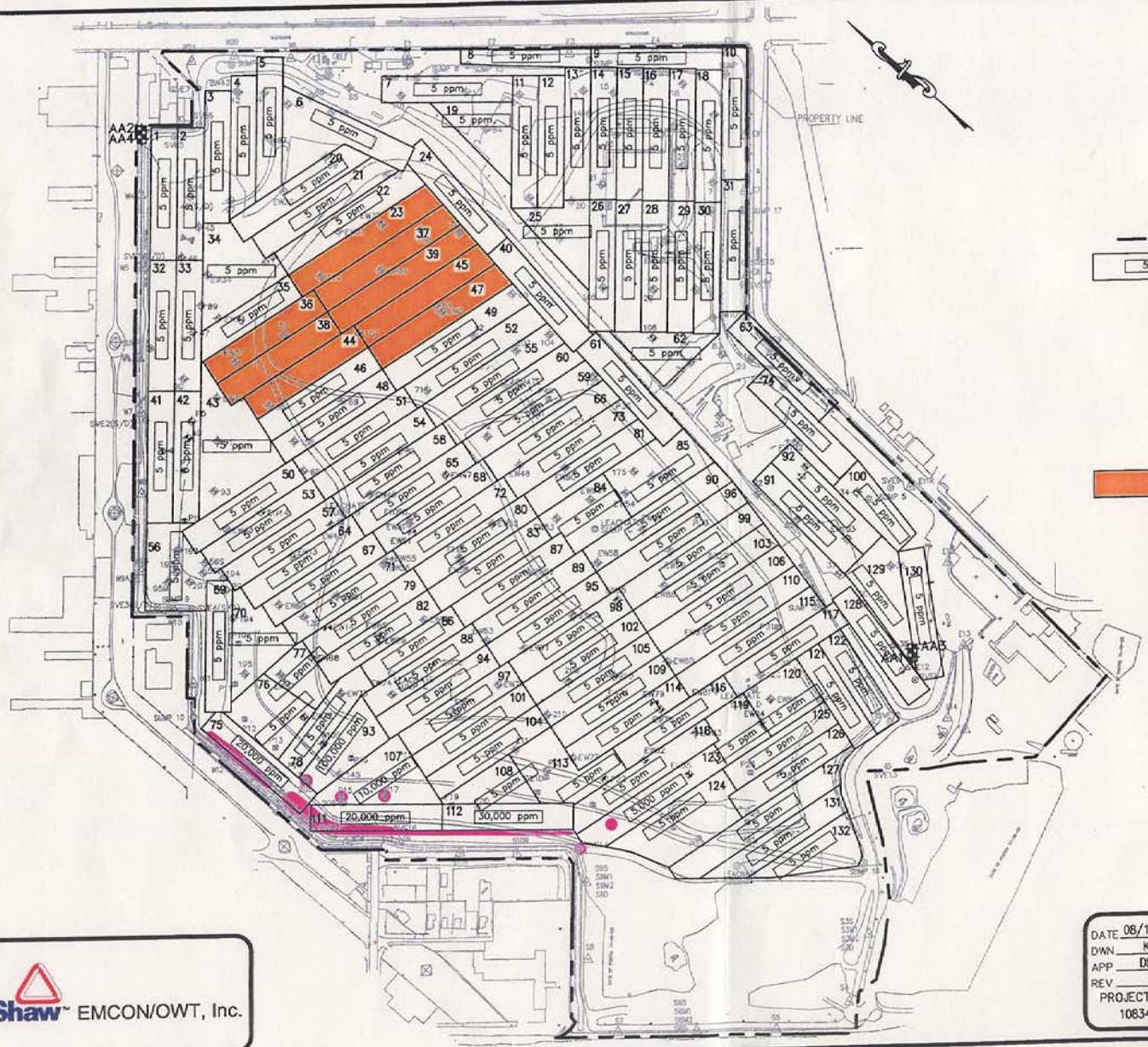
Shaw™ EMCON/OWT, Inc.

DATE 08/12/04
DWN KK
APP DHT
REV
PROJECT NO. 108341

WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
JULY 2004
INSTANTANEOUS SURFACE EMISSIONS RESULTS

1" 1/2" 0" 1"


PROPERTY LINE
AA2
AA4
AA3
AA1
5 ppm
1,000 ppm
5,000 ppm
100,000 ppm
LEGEND
PROPERTY BOUNDARY
INTEGRATED SURFACE SAMPLING GRID
TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
AA1 UP WIND SAMPLER
AA2 DOWN WIND SAMPLER
AA3 DOWN WIND SAMPLER
AA4 UP WIND SAMPLER
READINGS OVER 500 ppm AUGUST 2004
ACTIVE AREA, AUGUST 2004
NOTES:
1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEASURED IN PARTS PER MILLION (PPM) AS METHANE.
2) BACKGROUND TOC READING WAS 5 ppm.
3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
4) AA = AMBIENT AIR MONITORING STATION.
0
400
800
SCALE IN FEET
Shaw EMCON/OWT, Inc.
DATE 08/12/04
DWN KK
APP DHT
REV
PROJECT NO. 108341
WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
AUGUST 2004
INSTANTANEOUS SURFACE EMISSIONS RESULTS



LEGEND

- PROPERTY BOUNDARY
- 5 ppm — INTEGRATED SURFACE SAMPLING GRID
- TOTAL ORGANIC COMPOUNDS (TOC) MEASURED AS METHANE USING ORGANIC VAPOR ANALYZER
- AA1 — UP WIND SAMPLER
- AA2 — DOWN WIND SAMPLER
- AA3 — DOWN WIND SAMPLER
- AA4 — UP WIND SAMPLER
- READINGS OVER 500 ppm SEPTEMBER 2004
- ACTIVE AREA, SEPTEMBER 2004

NOTES:

1) ALL TOTAL ORGANIC COMPOUND (TOC) CONCENTRATIONS ARE MEASURED IN PARTS PER MILLION (PPM) AS METHANE.
2) BACKGROUND TOC READING WAS 5 ppm.
3) BRADLEY WEATHER STATION IS LOCATED ATOP THE MAIN OFFICE BUILDING (NOT SHOWN ON MAP) .
4) AA = AMBIENT AIR MONITORING STATION.

0 400 800

SCALE IN FEET

Shaw™ EMCON/OWT, Inc.

DATE 08/12/04
DWN KK
APP DHT
REV
PROJECT NO. 108341

WASTE MANAGEMENT OF CALIFORNIA, INC.
BRADLEY LANDFILL AND RECYCLING CENTER
SUN VALLEY, CALIFORNIA
SEPTEMBER 2004
INSTANTANEOUS SURFACE EMISSIONS RESULTS

1" 1/2" 0" 1"

APPENDIX A

ALTERNATIVE RULE 1150.1 COMPLIANCE PLAN

South Coast
Air Quality Management District
AQMD
21865 E. Copley Drive, Diamond Bar, CA 91765-4182
(909) 396-2000 • www.aqmd.gov

June 19, 2002

WASTE MANAGEMENT DISPOSAL SVCS OF CAL
9081 TUJUNGA AVE
SUN VALLEY, CA 91352

Attention: SCOTT PIGNAC

RULE 1150.1 COMPLIANCE PLAN

Reference is made to your Application for a Rule 1150.1 Compliance Plan for the following landfill.

Facility ID:	50310	Sector:	PC
Application No:	394147	Phone No:	(818) 767-6180
Common Name:	Bradley Landfill		
Location Address:	9227 TUJUNGA AVE		
City:	SUN VALLEY	, CA	91352-1542

South Coast Air Quality Management District (AQMD) has reviewed your application and approved the alternatives as described in the inserts to the attached Rule 1150.1 requirements for your landfill. Rule 1150.1 Compliance Plans may be submitted by each owner or operator responsible for that section of the rule directly under their control, or by the owner or operator responsible for the entire landfill. Compliance under the alternative provision is achieved if only one owner or operator with responsibility submits a compliance plan for the applicable section of the rule. Only one alternative to each rule requirement shall be allowed for multiple Compliance Plans issued to one landfill, and that alternative shall be written into each Compliance Plan for that landfill. The AQMD reserves the right to deny any or all of these alternatives if it is determined that the alternative(s) allow emissions from the landfill that would not have occurred if the owner or operator were complying with the rule requirements. **This Compliance Plan supercedes all previous plans issued to you for this site. The Municipal Solid Waste (MSW) landfill owner or operator shall comply with this approved Compliance Plan no later than October 1, 2002.**

Where no Rule 1150.1 alternatives are specified, compliance with provisions of Rule 1150.1 is required. You are further advised that other governmental agencies may require approval for the operation of this landfill and it is the responsibility of the applicant to obtain approval from each agency. This compliance plan will remain in force until either a new plan is filed and approved or the applicant is notified by the Executive Officer of revisions to this plan. The AQMD shall not be responsible or liable for any losses resulting from measures required or taken pursuant to the requirements of this approved Rule 1150.1 Compliance Plan.

If you have any questions regarding this matter, please phone Ted Kowalczyk, Air Quality Engineer at (909) 396-2592.

Sincerely,

Jay Chen. P.E.
Senior A.Q. Engineering Manager

cc: Larry Israel
Air Quality Inspector
Revision Number: 3

RULE 1150.1. CONTROL OF GASEOUS EMISSIONS FROM MUNICIPAL SOLID WASTE LANDFILLS (Amended March 17, 2000)

TABLE OF CONTENTS

The reference numbers in the left hand margin of the rule refer to sections of 40 CFR, Part 60, Subpart WWW (NSPS)

(a) Purpose

The rule is intended to limit Municipal Solid Waste (MSW) landfill emissions to prevent public nuisance and possible detriment to public health caused by exposure to such emissions.

(b) Applicability

This rule applies to each active and inactive MSW landfill.

(c) Definitions

Terms used but not defined in this rule have the meaning given them in 40 CFR, Part 60, Section 60.751 (Definitions):

(1) ADMINISTRATOR means the Executive Officer of the South Coast Air Quality Management District (District).

(2) ACTIVE LANDFILL means an MSW landfill that has received waste on or after November 8, 1987.

(3) BACKGROUND means the local ambient concentration of total organic compounds (TOC) measured as methane determined by holding the instrument probe approximately 5 to 6 feet above the landfill surface.

(4) CLOSED LANDFILL means a disposal facility that has ceased accepting waste and was closed in accordance with all applicable federal, state and local statutes, regulations, and ordinances in effect at the time of closure.

(5) INACTIVE LANDFILL means an MSW landfill where solid waste had been disposed of before November 8, 1987 and no more subsequent solid waste disposal activity has been conducted within the disposal facility.

(6) MSW LANDFILL means an entire disposal facility in a contiguous geographical space where solid waste is placed in or on land. An MSW landfill may be either active or inactive.

(7) OPERATOR means the person:

(A) Operating the MSW landfill, or

(B) Operating the MSW landfill gas collection or control system.

(8) OWNER means the person holding Title to the property.

(9) PERIMETER means the outer boundary of the entire waste disposal property.

(10) PROFESSIONAL ENGINEER means an engineer holding a valid certificate issued by the State of California Board of Registration for

Professional Engineers and Land Surveyors or a state offering reciprocity with California.

(11) TOXIC AIR CONTAMINANT (TAC) means an air contaminant which has been identified as a hazardous air pollutant pursuant to Section 7412 of Title 42 of the United States Code; or has been identified as a TAC by the Air Resources Board pursuant to Health and Safety Code Section 39655 through 39662, or which may cause or contribute to an increase in mortality or an increase in serious illness, or potential hazard to human health.

(d) Active Landfill Design and Operation Requirements

The MSW landfill owner or operator shall comply with the provisions of paragraphs (d)(1) through (d)(11):

(1) If a valid Permit to Construct or Permit to Operate for the collection and control system that meets the requirements of subparagraphs (d)(1)(A) through (d)(1)(C) has not been issued by the District by the adoption date of this rule, submit a site-specific collection and control system design plan. The design plan shall be prepared by a Professional Engineer and sent to the Executive Officer with applications for Permits to Construct or Permits to Operate no later than one year after the adoption of this rule. The Executive Officer shall review the collection and control system design and either approve it, disapprove it, or request that additional information be submitted.

752(b)(2)(i)
752(b)(2)(i)(D)

(A) The collection and control system shall be designed to handle the maximum expected gas flow rate from the entire area of the landfill that requires control, to minimize migration of subsurface gas to comply with paragraph (d)(4), and to collect gas at an extraction rate to comply with paragraphs (d)(5) and (d)(6). For the purposes of calculating the maximum expected gas generation flow rate from the landfill, one of the equations in 40 CFR, Part 60, Section 60.755(a)(1) shall be used. Another method may be used to determine the maximum gas generation flow rate, if the method has been approved by the Executive Officer.

752(b)(2)(ii)(A)(*1*), (*3*), (*4*)
755(a)(1)
758(b)(1)(i)

(B) If a valid Permit to Construct or Permit to Operate has not been issued by the District for the collection and control system, the collection and control system design plan shall either conform with

752(b)(2)(i)(C)
756(e)

specifications for active collection systems in 40 CFR, Part 60, Section 60.759 or include a demonstration to the Executive Officer's satisfaction of the sufficiency of the alternative provisions describing the design and operation of the collection system, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. Alternatives to this rule shall be submitted as specified in subdivision (i).

(C) The design plan shall provide for the control of collected MSW landfill emissions through the use of a collection and control system meeting the applicable requirements in clauses (d)(1)(C)(i) and (d)(1)(C)(ii):

752(b)(2)(iii)

(i) Route all the collected gas to a control system designed and operated to either reduce NMOC by at least 98 percent by weight or reduce the outlet NMOC concentration to less than 20 parts per million by volume (ppmv), dry basis as hexane at 3 percent oxygen. The required reduction efficiency or ppmv shall be established by an initial source test, required under 40 CFR, Part 60, Section 60.8 and **annually** thereafter using the test methods specified in paragraph (j)(1). The annual source test shall be conducted no later than 45 days after the anniversary date of the initial source test.

ALTERNATIVE: THE FOLLOWING FREQUENCY SHALL BE USED FOR SOURCE TESTING IDENTICAL FLARES LISTED ON ONE PERMIT TO OPERATE WHERE IDENTICAL MEANS, BUT IS NOT LIMITED TO:

MAKE AND MODEL, BURNERS, OPERATIONAL SETTINGS, MAINTENANCE AND FUELS.

SINGLE BACKUP FLARE- AFTER EVERY 4000 HOURS OF OPERATION.

MULTIPLE BACKUP FLARES - ONE FLARE AFTER EVERY 4000 HOURS OF CUMULATIVE BACKUP OPERATION FOR ALL FLARES LISTED ON THE PERMIT TO OPERATE. ALTERNATE TESTING OF THE FLARES SUCH THAT EACH FLARE IS TESTED.

NON-BACKUP FLARES: AT LEAST ONE FLARE EVERY YEAR AND THEN ALTERNATE ALL OTHERS SUCH THAT EACH IS SOURCE TESTED AT LEAST ONCE EVERY THREE YEARS.

(I) If a boiler or process heater is used as the control device, the landfill gas stream shall be introduced into the flame zone. Where the landfill gas is the primary fuel for the boiler or process heater, introduction of the landfill gas stream into the flame zone is not required.

(II) The control device shall be operated within the **operating parameter ranges** established during the initial or most recent compliant source test. The operating parameters to be monitored are specified under paragraph (e)(6).

(ii) Route the collected gas to a treatment system that processes the collected gas for subsequent sale or use. All emissions from any atmospheric vent from the gas treatment system shall be subject to the requirements of clause (d)(1)(C)(i).

(2) Install and operate the collection and control system no later than 18 months after the submittal of the design plan. 752(b)(2)(ii)

(3) If the District has not issued prior written approval for subsurface refuse boundary sampling probes, design and install subsurface refuse boundary sampling probes as specified in Section 1.1, Attachment A, to determine whether landfill gas migration exists. Installation of the refuse boundary probes shall be no later than 18 months after the submittal of the collection and control design plan as specified in paragraph (d)(1).

ALTERNATIVE: THE SUBSURFACE REFUSE BOUNDARY PROBES APPROVED IN THE PAST OR SUBMITTED WITH THIS APPLICATION, ARE APPROVED. ALL FUTURE DESIGNS AND INSTALLATIONS NOT MEETING THE RULE REQUIREMENTS, SHALL BE SUBMITTED FOR AQMD PRE-CONSTRUCTION APPROVAL WITH A COMPLIANCE PLAN APPLICATION.

(4) Operate the collection system to prevent the concentration of TOC measured as methane from exceeding five percent by volume in the subsurface refuse boundary sampling probes constructed for the purposes of detecting lateral migration of landfill gas away from the waste mass, as determined from collected samples.

ALTERNATIVE: EXCEPT PROBE E-8-D (AS IDENTIFIED ON "FIGURE 1. SITE PLAN OF BRADELY EAST LANDFILL IN VICINITY OF PROBE E-8" – 12/5/01).

(5) Operate the collection system to prevent the concentration of TOC measured as methane from exceeding 50 ppmv as determined by integrated samples taken on numbered 50,000 square foot landfill grids.

(6) Operate the collection system to prevent the concentration of TOC
753(d) measured as methane from exceeding 500 ppmv above background as determined by instantaneous monitoring at any location on the landfill, except at the outlet of any control device.

(7) Operate the control or treatment system at all times when the collected gas is routed to the system. In the event the collection, treatment or control
753(e) system is inoperable, the gas conveying system shall be shut down and all valves in the collection, treatment and control system contributing to venting of the gas to the atmosphere shall be closed no later than one hour after such breakdown or no later than one hour after the time the owner or operator knew or reasonably should have known of its occurrence.

(8) Operate the collection, treatment and control system until all the
752(b)(2)(V) exemption criteria under subdivision (k) has been met and the reports specified in subparagraph (f)(2)(D) have been submitted to the Executive Officer.

(9) Design, install and operate a wind speed and direction monitoring system with a continuous recorder of the requirements in subparagraphs (d)(9)(A)

and (d)(9)(B), at a site which is representative of the wind speed and direction in the areas being sampled. The wind velocity shall be recorded throughout the sampling period. The wind direction transmitter shall be oriented to true north using a compass. The monitor shall be installed according to the criteria set forth in 40 CFR, Part 50.

(A) For wind speed use a 3 cup assembly, with a range of 0 to 50 miles per hour, with a threshold of 0.75 mile per hour or less.

(B) For wind direction use a vane, with a range of 0 to 540 degrees azimuth, with a threshold of plus-minus 2 degrees.

(10) Comply with the requirements of Section 21140 – Final Cover, of California Code of Regulations Title 27, Subchapter 5 – Closure and Post-Closure Maintenance, upon closure of a MSW landfill unit, incorporated herein as Attachment B.

(11) Comply with the requirement of Section 20200 – State Water Resources Conservation Board (SWRCB) Applicability and Classification Criteria of California Code of Regulations Title 27, Article 2 – SWRCB, Waste Classification and Management, with respect to the disposal of liquids and semi-solid waste at Class III landfills, incorporated herein as Attachment C.

(e) Active Landfill Sampling and Monitoring Requirements

The MSW landfill owner or operator shall comply with the provisions of paragraphs (e)(1) through (e)(6), after installation of the landfill gas control system:

(1) Monitor and collect samples for analysis as specified in Section 1.0, Attachment A, to **determine the concentrations of TOC and TAC each month** from the subsurface refuse boundary sampling probes, to assure continued compliance. Any measurement of 5 percent TOC by volume or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(1)(A) through (e)(1)(C) shall be taken.

ALTERNATIVE: PROBE E-8-D* ONLY, IN LIEU OF COMPLYING WITH PARAGRAPH (d)(4), OR (e)(1)(A-C) WITH RESPECT TO EXCEEDANCES, MONITOR INSTANTANEOUSLY GRID 31 D* PURSUANT TO SECTION 3.0, ATTACHMENT A. THE OPERATOR SHALL RECORD, MAINTAIN AND REPORT THE RESULTS OF THIS MONITORING PURSUANT TO

SUBDIVISION (f). *IDENTIFIED IN "FIGURE 1, SITE PLAN OF BRADELY EAST LANDFILL IN VICINITY OF PROBE E-8" – 12/5/01.

(A) The probe shall be identified and the location recorded as specified in Section 1.6, Attachment A.

(B) Adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of the probe with the exceedance shall be made and the probe resampled no later than 10 calendar days after detecting the exceedance.

(C) If the resampling of the probe shows a second exceedance, additional corrective action shall be taken and the probe shall be resampled again no later than 10 calendar days after the second exceedance. If the resampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

(2) Collect **monthly integrated** samples for analysis as specified in Section 2.0, Attachment A, **to determine the concentrations of TOC and TAC** from the landfill surface, to assure continued compliance. Any reading of 50 ppmv or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(2)(A) through (e)(2)(C) shall be taken.

ALTERNATIVE: THE LANDFILL SAMPLING GRIDS ARE DIVIDED INTO THREE TYPES: "A", "B" AND "C". QUARTERLY FOR TYPE "A" AND "B" GRIDS. ANNUALLY FOR TYPE "C" GRIDS.

(A) The grid shall be identified and the location recorded as specified in Section 2.8, Attachment A.

(B) Cover maintenance or adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of the grid with the exceedance shall be made and the grid resampled no later than 10 calendar days after detecting the exceedance. If measurable precipitation occurs within the 10 calendar days, all resampling and analysis shall comply with Section 2.2.2, Attachment A.

(C) If the resampling of the grid shows a second exceedance, additional corrective action shall be taken and the grid shall be resampled again no later than 10 calendar days after the second exceedance. If the resampling shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

(3) Monitor instantaneously as specified in Section 3.0, Attachment A, to **determine the concentration of TOC each calendar quarter,** to assure continued compliance. Any reading of 500 ppmv TOC or greater shall be recorded as an exceedance and the actions specified in subparagraphs (e)(3)(A) through (e)(3)(C) shall be taken. Any closed landfill that has no monitored exceedances of the 500 ppmv standard in three consecutive quarterly monitoring periods may monitor annually. Any reading of 500 ppmv TOC or more above background detected during the annual monitoring or compliance inspections shall result in a return to quarterly monitoring for that landfill.

755(c)
756(f)

ALTERNATIVE: THE LANDFILL MONITORING GRIDS ARE DIVIDED INTO THREE TYPES: "A", "B" AND "C".

QUARTERLY FOR TYPE "A" AND "B" GRIDS.

QUARTERLY FOR "C" WELL HEADS, POLES, AND OTHER STRUCTURES PROTRUDING INTO THE REFUSE.

ANNUALLY FOR THE SURFACE OF TYPE "C" GRIDS.

(A) The location of each monitored exceedance shall be marked on the landfill or identified by using a global positioning system and the location recorded as specified in Section 3.4, Attachment A.

(B) Cover maintenance or adjustments to the vacuum of adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be remonitored no later than 10 calendar days after detecting the exceedance.

(C) If the remonitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be remonitored again no later than 10 days after the second exceedance. If the remonitoring shows a third exceedance, it is a violation unless the owner or operator determines that a new or replacement gas collection well is needed. The owner or operator must install and operate the new or replacement well no later than 45 days after detecting the third exceedance.

(4) Collect a **monthly** landfill gas sample for analysis as specified in Section 4.0, Attachment A, to **determine the concentrations of TOC and TAC** from the main gas collection header line entering the gas treatment and/or gas control systems.

ALTERNATIVE: QUARTERLY

(5) Collect **monthly** ambient air samples for analysis as specified in Section 5.0, Attachment A, to **determine the concentrations of TOC and TAC** from the landfill property boundary.

ALTERNATIVE: QUARTERLY

(6) Monitor the collection and control system equipment specified under subparagraphs (e)(6)(A) and (e)(6)(B) in order to comply with subparagraph (d)(1)(C).

(A) For an enclosed combustor install, calibrate, maintain, and operate according to the manufacturer's specifications, the following equipment: 756(b)

(ii) A temperature monitoring device equipped with a continuous recorder and having an accuracy of plus-minus 1 percent of the temperature being measured expressed in degrees Celsius or Fahrenheit. A temperature monitoring device is not required for boilers or process heaters with design heat input capacity greater than 44 megawatts.

(iii) At least one gas flow rate measuring device that shall record the flow to the control device(s) at least every 15 minutes.

(B) For a device other than an enclosed combustor, demonstrate compliance with subparagraph (d)(1)(C) by providing information satisfactory to the Executive Officer describing the operation of the 756(d)

control device, the operating parameters that would indicate proper performance, and appropriate monitoring procedures. Alternatives to this rule shall be submitted as specified in subdivision (i). The Executive Officer may specify additional appropriate monitoring procedures.

(f) Active Landfill Recordkeeping and Reporting Requirements

The MSW landfill owner or operator shall keep all records up-to-date, readily accessible and maintained for at least a period of 5 years and made available to District staff upon request. Records older than 2 years may be maintained off-site, if they are retrievable no later than 4 hours after request.

758(a)

(1) The records required in subparagraphs (f)(1)(A) through (f)(1)(H) shall be maintained at the facility.

(A) For the life of the control equipment as measured during the initial source test or compliance determination:

758(b)

(i) The control device vendor specifications.

(ii) The maximum expected gas generation flow rate as calculated in subparagraph (d)(1)(A).

(iii) When seeking to demonstrate compliance with subparagraph (d)(1)(C) through the use of an enclosed combustion device other than a boiler or process heater with a design heat input capacity greater than 44 megawatts:

(I) The average combustion temperature measured at least every 15 minutes and averaged over the same time period of the source test.

ALTERNATIVE: FOR FLARE(S), CONTINUOUSLY RECORD THE INSTANTANEOUS COMBUSTION TEMPERATURE.

(II) The reduction of NMOC determined as specified in clause (d)(1)(C)(i) achieved by the control device.

(iv) When seeking to demonstrate compliance with subclause (d)(1)(C)(i)(I) through the use of a boiler or process heater of any size: a description of the location at which the collected gas vent stream is introduced into the boiler or

process heater over the same time period of the source testing.

(B) The data required to be recorded under Section 1.6, Attachment A, for subsurface refuse boundary sampling probes and all remedial actions taken for exceedances of the 5 percent TOC standard required in paragraph (d)(4).

(C) The data required to be recorded under Section 2.8, Attachment A, for integrated samples and all remedial actions taken for exceedances of the 50 ppmv TOC standard required in paragraph (d)(5).

(D) The data required to be recorded under Section 3.4, Attachment A, for instantaneous monitoring and all remedial actions taken for exceedances of the 500 ppmv TOC standard required in paragraph (d)(6).

758(e)

(E) The data required to be recorded under Section 4.5, Attachment A, for landfill gas samples collected from the main gas collection header line entering the gas treatment and/or gas control systems.

(F) The data required to be recorded under Section 5.7, Attachment A, from ambient air collected at the landfill property boundary.

(G) A description and the duration of all periods when the collection, treatment or control device was not operating for a period exceeding one hour and the length of time the system was not operating.

757(f)(3)

(H) Continuous records of the equipment operating parameters specified to be monitored under paragraph (e)(6) as well as records for periods of operation during which the parameter boundaries established during the most recent source test are exceeded.

758(c)

(i) The following constitute exceedances that shall be recorded:

(I) For enclosed combustors except for boilers and process heaters with design heat input capacity of 44 megawatts (150 million British thermal unit per hour) or greater, all 3-hour periods of operation during which the average combustion temperature was more than 28° C (82° F) below the average

combustion temperature during the most recent source test at which compliance with subparagraph (d)(1)(C) was determined.

ALTERNATIVE: FOR FLARES, ALL 3-HOUR PERIODS OF OPERATION DURING WHICH THE INSTANTANEOUS COMBUSTION TEMPERATURE WAS MORE THAN 28 DEGREES C (82 DEGREES F) BELOW THE AVERAGE COMBUSTION TEMPERATURE DURING THE MOST RECENT SOURCE TEST AT WHICH COMPLIANCE WITH SUBPARAGRAPH (D)(1)(C) WAS DETERMINED.

FOR BOILERS THIS REQUIREMENT IS NOT APPLICABLE.

(II) For boilers or process heaters, whenever there is a change in the location at which the vent stream is introduced into the flame zone as required under clause (f)(1)(A)(iv).

(ii) Records of the indication of flow to the control device specified under paragraph (e)(6)(A)(ii).

(iii) Each owner or operator who uses a boiler or process heater with a design heat input capacity of 44 megawatts or greater to comply with subparagraph (d)(1)(C) shall keep records of all periods of operation of the boiler or process heater. (Examples of such records could include records of steam use, fuel use, or monitoring data collected pursuant to other State, local, Tribal, or Federal regulatory requirements.)

(2) The reports required in subparagraphs (f)(2)(A) through (f)(2)(D) shall be submitted to the Executive Officer (Either paper copy or electronic formats are acceptable).

(A) The initial source test report no later than 180 days after start-up and each succeeding complete annual source test report no later

than 45 days after the anniversary date of the initial source test, for all control systems required in subparagraph (d)(1)(C).

(B) A report no later than 45 days after the last day of each calendar quarter with the information required in clauses (f)(2)(B)(i) and (f)(2)(B)(ii).

(i) All exceedances of the emission standards required in paragraphs (d)(4), (d)(5) and (d)(6) in the format required under Sections 1.6, 2.8 and 3.4, Attachment A. All exceedance resampling/remonitoring and each corrective action required under paragraphs (e)(1), (e)(2) and (e)(3). If there are no exceedances, submit a letter stating there were no exceedances for that quarter.

(ii) All TAC analyses required in paragraphs (e)(1) through (e)(5).

(C) A closure report to the Executive Officer no later than 30 days after waste acceptance cessation. The Executive Officer may request additional information as may be necessary to verify that permanent closure has taken place in accordance with the requirements of 40 CFR, Part 258, Section 258.60 or the applicable federal, state and local statutes, regulations, and ordinances in effect at the time of closure. If a closure report has been submitted to the Executive Officer, no additional wastes shall be placed into the landfill without filing a notification of modification as described under 40 CFR, Part 60, Section 60.7(a)(4).

757(d)

(C) A decommissioning report to the Executive Officer 30 days prior to well capping, removal or cessation of operation of the collection, treatment or control equipment. The decommissioning report shall contain all of the items as specified in clauses (f)(2)(D)(i) through (f)(2)(D)(iii):

757(e)

(i) A copy of the closure report submitted in accordance with subparagraph (f)(2)(C).

(ii) A copy of the initial source test report demonstrating that the collection and control system has been installed a minimum of 15 years.

(iii) All records needed to verify the landfill meets the exemption criteria under subdivision (k).

(g) Active Landfill Compliance Schedule

The MSW landfill owner or operator shall comply with the active landfill requirements of this rule or submit alternatives to this rule as specified in subdivision (i) no later than 90 days after April 10, 1998. Rule 1150.1 Compliance Plans previously submitted to the District shall remain in effect during the 90 days after April 10, 1998, or until the owner or operator has received an approved alternative Rule 1150.1 Compliance Plan submitted as specified in subdivision (i).

(h) Inactive Landfill Requirements

The MSW landfill owner or operator shall comply with either the applicable requirements in paragraphs (h)(1) and (h)(2) or submit alternatives to this rule as specified in subdivision (i).

(1) Inactive landfills that have a landfill gas collection system shall meet all of the active landfill requirements. For those inactive landfills without a gas collection system and determined to need one, meet all of the active landfill requirements, except the collection and control system design plan and applications for permits shall be submitted no later than one year after notification by the Executive Officer.

(2) Inactive landfills without a gas collection system:

(A) Upon discovery of TOC measured as methane exceeding 500 ppmv at any location on the landfill surface, apply mitigation measures such as compaction, additional cover, and/or watering to reduce the emissions to less than 500 ppmv. The procedure used for measurement of TOC shall meet the requirements of Section 3.0, Attachment A.

(B) Submit the following Data and/or meet the required action in paragraph (h)(1):

(i) At any time after the adoption of this rule, but not later than 30 days after the receipt of a request, submit to the Executive Officer a screening questionnaire pursuant to California Air Resources Board Health and Safety Code (H & S) 41805.5.

(ii) No later than 90 days after the date of a second request, submit to the Executive Officer a solid waste air quality assessment test (SWAT) report pursuant to H & S 41805.5, to determine whether or not a landfill gas collection and control system and/or a subsurface refuse boundary probe sampling system shall be required to be installed.

(iii) If additional time is needed to provide the information required in clauses (h)(2)(B)(i) and (h)(2)(B)(ii), a written request for an extension may be submitted in writing to the Executive Officer, indicating the amount of time that is needed to obtain such information. Such a request for an extension may be submitted to the Executive Officer no later than 30 days after the receipt of the Executive Officer's requests as specified in clauses (h)(2)(B)(i) and (h)(2)(B)(ii).

(iv) Upon notification by the Executive Officer that a landfill gas collection and control system and/or a subsurface refuse boundary probe sampling system shall be required, comply with paragraph (h)(1).

(i) Alternatives:

752(b)(2)(i)(B)

Because of the many site-specific factors involved in the design and operation of landfill gas systems, alternatives to the requirements, test methods, procedures, compliance measures, monitoring, recordkeeping or reporting provisions of this rule may be necessary. All alternatives to the requirements of this rule shall be submitted to the Executive Officer in a Rule 1150.1 Compliance Plan. The Executive Officer shall review the Rule 1150.1 Compliance Plan and either approve it, disapprove it, or request that additional information be submitted. The Executive Officer shall deny the plan unless he determines that it will provide equivalent levels of emission control and enforceability, as would compliance with the requirements of this rule.

(j) Test Methods

(1) Methods of Analysis

(A) Either U.S. EPA Reference Method 25 or U.S. EPA Reference Method 18, 40 CFR, Part 60, Appendix A shall be used to

754(d)

determine the efficiency of the control system in reducing NMOC by at least 98 percent by weight. If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The equation in subparagraph (j)(1)(B) shall be used to calculate efficiency.

(B) U.S. EPA Reference Method 25, 40 CFR, Part 60, Appendix A shall be used to determine the efficiency of the control system in reducing the outlet NMOC concentration to less than 20 ppmv, dry basis as hexane at 3 percent oxygen. Until, but not after District Method 25.3 has met equivalency as specified in paragraph (j)(2), U.S. EPA Reference Method 18, 40 CFR, Part 60, Appendix A may be used for this source test. If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). The following equation shall be used to calculate efficiency:

$$\text{Control Efficiency} = (NMOC_{in} - NMOC_{out})/(NMOC_{in})$$

where,

$NMOC_{in}$ = mass of NMOC entering control device

$NMOC_{out}$ = mass of NMOC exiting control device

(2) Equivalent Test Methods

Any other method demonstrated to be equivalent and approved in writing by the Executive Officers of the District, the California Air Resources Board (CARB), and the Regional Administrator of the United States Environmental Protection Agency (U.S. EPA), Region IX, or their designees, may be used to determine compliance with this rule.

(k) Exemptions

An MSW landfill may be temporarily exempt from all or any portion of the requirements of this rule if the owner or operator can demonstrate to the Executive Officer that the MSW landfill emissions meet the requirements of paragraphs (k)(1) through (k)(4). Temporary exemption may be independently determined by the Executive Officer, if the MSW landfill emissions meet the requirements of paragraphs (k)(1) through (k)(4). MSW landfills issued temporary exemption

letters by the Executive Officer shall remain exempt, subject to periodic review, provided:

(1) The MSW landfill complies with the requirements of paragraphs (d)(4), (d)(5) and (d)(6).

(2) The MSW landfill emits less than 55 tons per year of NMOC as specified in 40 CFR, Part 60, Section 60.752(b) or, for a closed landfill, as specified in 40 CFR, Part 60, Section 60.752(b)(2)(v)(C).

752(b)

(3) The MSW landfill constitutes an insignificant health risk. In making this determination the Executive Officer shall consider the listed factors in subparagraphs (k)(3)(A) through (k)(3)(G). Where not specified, in evaluating the cancer risks and hazard indexes, the Executive Officer shall be guided by the definitions in District Rule 1401 - New Source Review of Carcinogenic Air Contaminants, and Rule 1402 - Control of Toxic Air Contaminants From Existing Sources.

(A) The proximity to, and any adverse impacts on, residences, schools, hospitals or other locations or structures which have children, or elderly or sick persons.

(B) The emission migration beyond the landfill property boundary.

(C) The complaint history.

(D) The age and closure date.

(E) The amount and type of waste deposited.

(F) That the emissions of carcinogenic air contaminants, specified in Table 1, Attachment A, from the landfill will not result in a maximum individual cancer risk greater than one in one million (1×10^{-6}) at any receptor location.

(G) That the emissions of TAC, specified in Table 1, Attachment A, from the landfill will not result in a total acute or chronic Hazard Index of greater than 1.

(4) The MSW landfill is in compliance with District Nuisance Rule 402.

Such temporary exemption shall be reviewed periodically by the Executive Officer, to consider the land use surrounding the landfill and gaseous emissions, and the impact on the public. Depending upon the results of the review, the Executive Officer may extend or terminate the exemption.

(l) Loss of Exemption

If an MSW landfill should have its temporary exemption terminated, the owner or operator shall comply with the active landfill requirements of this rule.

ATTACHMENT A

1.0 SUBSURFACE REFUSE BOUNDARY SAMPLING PROBES
Paragraph (d)(4) and (e)(1) Requirements of Rule 1150.1

1.1 Subsurface Probe Design and Installation

Landfills which are subject to Rule 1150.1 must install and maintain a subsurface refuse boundary probe sampling system of adequate design to determine if gas migration exists for the ultimate purpose of preventing surface emissions. The California Integrated Waste Management Board also requires the installation of refuse boundary probes for purposes of detecting and ultimately preventing subsurface migration of landfill gas past the permitted property boundary of the landfill/disposal site as well as the prevention of the accumulation of landfill gas in on-site structures. It is the District's intent that the subsurface refuse boundary probes required by paragraph (d)(3) of Rule 1150.1 be designed and installed in such a manner as to comply with the requirements of the California Integrated Waste Management Board (whenever possible) and Sections 1.1.1 through 1.1.4.

1.1.1 The probes shall be installed within the landfill property line and outside the refuse disposal area.

1.1.2 Wherever accessible, the **probes shall be located no further than 100 feet from the refuse boundary.**

ALTERNATIVE: WHEREVER ACCESSIBLE AND THE PROBES ARE GREATER THAN 100 FEET FROM THE REFUSE, MONITOR INSTANTANEOUSLY FROM THE REFUSE BOUNDARY TO THE PROBE, USING THE GRID METHOD EVERY QUARTER AND WHEN PROBES EXCEED 2% TOC.

1.1.3 The spacing between probes shall be based on the adjacent land use no further than 1320 feet (1/4 mile) from the refuse boundary and shall be determined as follows:

LAND USE	SPACING
Residential/Commercial	100 feet
Public Access	500 feet
Undeveloped Open Space, (No Public Access)	650 feet
Landfill with Liners	1000 feet

1.1.4 Each probe shall be capped, sealed, have a sampling valve and be of multiple-depth design for which the depth shall be determined based on the depth of refuse no further than 500 feet from the probe as follows:

First Depth	10 feet below surface.
Second Depth	25% of refuse depth or 25 feet below surface, whichever is deeper.
Third Depth	50% of refuse depth or 50 feet below surface, whichever is deeper.
Fourth Depth	75% of refuse depth or 75 feet below surface, whichever is deeper.

Second, third, or fourth depth probes may be deleted if the required depth of such probe is deeper than the depth of the refuse.

1.2 Number of Samples

All refuse boundary gas probes at each depth shall be monitored monthly for TOC measured as methane using a portable flame ionization detector (FID) meeting the requirements of Section 3.2 and with a tube connected to the probe sampling valve. In addition, samples shall be taken as specified in Section 1.2.1 or 1.2.2 to determine the concentration of both TOC and TAC. The Executive Officer may require additional probes to be sampled upon written request.

1.2.1 If the TOC concentration measured with the FID does not exceed 5% by volume in any of the probes, collect one bag sample from one probe with the highest concentration, or

1.2.2 If the TOC concentration measured with the FID for any of the probes exceeds 5% by volume, collect one bag sample per probe from the probes with the highest concentrations above 5% by volume, from at least five probes.

1.3 Subsurface Refuse Boundary Probe Sampling Procedure

1.3.1 Prior to collecting gas samples, evacuate the probe (the probes must be sealed during evacuation) until the TOC concentration remains constant for at least 30 seconds.

1.3.2 The constant **TOC concentration shall be measured using an FID** that meets the requirements in Section 3.2.

ALTERNATIVE: PORTABLE ANALYZERS ON AN APPROVED LIST OF EQUIPMENT MAINTAINED BY THE AQMD MAY BE

USED AS ALTERNATIVES FOR THE SAMPLER/INSTRUMENT REQUIREMENTS OF THIS RULE.

1.3.3 Collect approximately a **10-liter** gas sample in a Tedlar (Dupont trade name for polyvinyl) bag or equivalent container over a continuous ten-minute period using the evacuated container sampling procedure described in Section 7.1.1 of EPA Method 18 or direct pump sampling procedure described in Section 7.1.2 of EPA Method 18. The container shall be LIGHT-SEALED.

1.4 Subsurface Refuse Boundary Probe Analytical Procedures

All samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2 and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

1.5 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

1.6 Recording the Results

1.6.1 Record the volume concentration of TOC measured as methane for each individually identified refuse boundary probe (at each depth) and the volume concentration of TAC for selected probes on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of both the refuse boundary probes and the gas collection system clearly marked and identified.

1.6.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

2.0 INTEGRATED LANDFILL SURFACE SAMPLING

Paragraph (d)(5) and (e)(2) Requirements of Rule 1150.1

2.1 Number of Samples

The number of samples collected will depend on the area of the landfill surface. The entire landfill disposal area shall be divided into individually identified 50,000 square foot grids. One monthly sample shall be collected from each grid for analysis. Any area that the Executive Officer deems inaccessible or dangerous for a technician to enter may be excluded from the sampling grids monitored by the landfill owner or operator. **To exclude an area from monitoring, the landfill owner or operator shall file a written request with the Executive Officer. Such a request shall include an explanation of the requested exclusion and photographs of the area. The Executive Officer shall notify the landfill owner or operator in writing of the decision.** Any exclusion granted shall apply only to the monitoring requirement. The 50 ppmv limit specified in paragraph (d)(5) of Rule 1150.1 applies to all areas.

ALTERNATIVE: SAMPLING IS NOT REQUIRED FOR THE FOLLOWING LANDFILL SURFACES: PORTIONS OF SLOPES 30 DEGREES AND GREATER, PAVED SURFACES EXCEPT FOR CRACKS, THE ACTIVE WORKING FACE, THE MAIN HAUL ROAD AND TEMPORARY STOCKPILES FIVE (5) FEET OR MORE IN HEIGHT. A TEMPORARY STOCKPILE DOES NOT INCLUDE A CLOSED LANDFILL FINAL COVER OR CAP.

2.2 Integrated Surface Sampling Conditions

2.2.1. The average wind speed during this sampling procedure shall be five miles per hour or less. Surface sampling shall be terminated when the average wind speed exceeds five miles per hour or the instantaneous wind speed exceeds ten miles per hour. Average wind speed is determined on a 15-minute average.

2.2.2. **Surface sampling shall be conducted when the landfill is dry. The landfill is considered dry when there has been no measurable precipitation for the preceding 72 hours prior to sampling.** Most major newspapers report the amount of precipitation that has fallen in a 24-hour period throughout the Southern California area. Select the nearest reporting station that represents the landfill location or provide for measurable precipitation collection at the MSW landfill wind monitoring station.

2.3 Integrated Surface Sampler Equipment Description

An integrated surface sampler is a portable self-contained unit with its own internal power source. The integrated sampler consists of a stainless steel collection probe, a rotameter, a pump, and a **10-liter Tedlar bag** enclosed in a LIGHT-SEALED CONTAINER to prevent photochemical reactions from occurring during sampling and transportation. The physical layout of the sampler is shown in Figure 1.

An alternate integrated surface sampler may be used, provided that the landfill owner or operator can show an equivalency with the sampler specifications in Section 2.4 and shown in Figure 1. All alternatives shall be submitted as specified in subdivision (i) of Rule 1150.1.

ALTERNATIVE: PORTABLE ANALYZERS ON AN APPROVED LIST OF EQUIPMENT MAINTAINED BY THE AQMD MAY BE USED AS ALTERNATIVES FOR THE SAMPLER/INSTRUMENT REQUIREMENTS OF THIS RULE.

2.4 Integrated Surface Sampler Equipment Specifications

2.4.1 Power: Batteries or any other power source.

2.4.2 Pump: The diaphragm shall be made of non-lubricated Viton (Dupont trade name for co-polymer of hexafluoropropylene and vinylidene fluoride) rubber.

2.4.3 Bag: One 10-liter Tedlar bag with a valve. The Tedlar bag shall be contained in a LIGHT-SEALED CONTAINER. The valve shall be leak free and constructed of aluminum, stainless steel, or non-reactive plastic with a Viton or Buna-N (butadiene acrylonitrile co-polymer) o-ring seal.

2.4.4 Rotameter: The rotameter shall be made of borosilicate glass or other non-reactive material and have a flow range of approximately 0-to-1 liter per minute. The scale shall be in milliliters or an equivalent unit. The graduations shall be spaced to facilitate accurate flow readings.

2.4.5 Air Flow Control Orifice: Needle valve in the rotameter.

2.4.6 Funnel: 316 stainless steel.

2.4.7 Fittings, Tubing and Connectors: 316 stainless steel or Teflon.

2.5 Integrated Surface Sampling Procedure

2.5.1 An integrated surface sampler as described in Section 2.4 shall be used to collect a surface sample approximately 8-to-10 liters from each grid.

2.5.2 During sampling, the probe shall be placed 0-to-3 inches above the landfill surface.

2.5.3 The sampler shall be set at a flow rate of approximately 333 cubic centimeters per minute

2.5.4 **Walk through a course of approximately 2,600 linear feet over a continuous 25-minute period.** Figure 2 shows a walk pattern for the 50,000 square foot grid.

ALTERNATIVE: THE LANDFILL SAMPLING GRIDS ARE DIVIDED INTO THREE TYPES CONSISTING OF TYPE "A", TYPE "B" AND TYPE "C" AS REFERENCED IN THE MAP SUBMITTED 4/27/00 OR THE MOST RECENT UPDATE, WITH SHEET TITLE "PLAN-INTEGRATED SURFACE EMISSIONS MONITORING GRIDS". THE THREE TYPES OF GRIDS ARE DEFINED AS: TYPE "A" - NO EXCLUSIONS FROM SAMPLING; TYPE "B" - CONTAINING STEEP SLOPES OR STEEP SLOPES AND DENSE VEGETATION ON GRIDS 121, 122, 128, AND 130; AND TYPE "C" - THE AREA OF ACTIVE RECYCLING OPERATIONS. THE TOPOGRAPHIC MAP SHALL BE DRAWN TO SCALE CLEARLY IDENTIFYING TOPOGRAPHICAL FEATURES OF THE LANDFILL WITH CONTOUR LINES. THE LOCATION OF ALL SAMPLING GRIDS AND THE GAS COLLECTION SYSTEM SHALL BE CLEARLY MARKED AND IDENTIFIED. THE SUBMITTED TOPOGRAPHICAL MAP WILL BE FILED IN THE APPLICATION FOLDER AND USED FOR COMPLIANCE. A SMALLER 11" BY 17" TOPOGRAPHICAL MAP IS ATTACHED TO THIS PLAN FOR FIELD REFERENCE. THE TOPOGRAPHICAL MAPS SHALL BE CONFIRMED OR UPDATED ANNUALLY BY THE OWNER/OPERATOR OR AS REQUESTED BY THE EXECUTIVE OFFICER.

SAMPLING OF TYPE "A" SURFACE GRIDS SHALL BE ACCORDING TO THE RULE.

SAMPLING OF TYPE "B" SURFACE GRIDS SHALL CONSIST OF SAMPLING THE TOE OF GRIDS 121, 128, AND 130 AND THE TOP OF GRID 122. VACUUM READINGS FROM ALL GAS EXTRACTION WELLS LOCATED ON TYPE "B" GRIDS SHALL BE RECORDED MONTHLY AND INCLUDED IN THE QUARTERLY REPORT. GRIDS 121 AND 122 EACH DEFINED AS A TYPE "B" GRID, SHALL BE REDESIGNATED AS A TYPE "A" GRID WHEN ENOUGH ADDITIONAL REFUSE HAS BEEN PUT IN PLACE.

SAMPLING OF TYPE "C" SURFACE GRIDS SHALL CONSIST OF SAMPLING A COURSE OF APPROXIMATELY 2,600 LINEAR FEET BUT NOT LESS THAN 1900 LINEAR FEET IN EACH GRID FOR A CONTINUOUS 25-MINUTE PERIOD EXCLUDING STOCKPILES, STORED EQUIPMENT AND RECYCLING EQUIPMENT. RULE 1150.1, ATTACHMENT A, FIGURE 2 SHOWS A 50,000 SQUARE FOOT GRID WALK PATTERN THAT WILL BE MODIFIED TO AVOID THE EXCLUSIONS. VACUUM READINGS FROM ALL GAS EXTRACTION WELLS LOCATED ON TYPE "C" ACTIVE RECYCLING GRIDS SHALL BE RECORDED MONTHLY AND INCLUDED IN THE QUARTERLY REPORT.

2.6 Integrated Surface Sample Analytical Procedures

All samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2. In addition, the samples specified in Section 2.6.1 or 2.6.2 must be analyzed no later than 72 hours after collection for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

2.6.1 Ten percent of all samples which have a concentration of TOC greater than 50 ppmv as methane, or

2.6.2 Two samples if all samples are 50 ppmv or less of TOC or two samples if there are less than 20 samples above 50 ppmv.

The Executive Officer may require more samples to be tested for TAC if he determines there is a potential nuisance or public health problem.

2.7 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

2.8 Recording the Results

2.8.1 Record the volume concentration of both TOC measured as methane for each grid and the volume concentration for the required TAC on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of the grids and the gas collection system clearly marked and identified.

2.8.2 Record the wind speed during the sampling period using the wind speed and direction monitoring system required in paragraph (d)(9) of Rule 1150.1.

2.8.3 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

3.0 INSTANTANEOUS LANDFILL SURFACE MONITORING Subparagraph (d)(6) and (e)(3) Requirements of Rule 1150.1

3.1 Monitoring Area

The entire landfill disposal area shall be monitored once each calendar quarter. Any area of the landfill that the Executive Officer deems as inaccessible or dangerous for a technician to enter may be excluded from the area to be monitored by the landfill owner or operator. **To exclude an area from monitoring, the landfill owner or operator shall file a petition with the Executive Officer.** Such a request shall include an explanation of why the area should be excluded and photographs of the area. Any excluded area granted shall only apply to the monitoring requirement. The 500 ppmv limit specified in paragraph (d)(6) of Rule 1150.1 applies to all areas.

ALTERNATIVE: MONITORING IS NOT REQUIRED FOR THE FOLLOWING LANDFILL SURFACES: PORTIONS OF SLOPES 30 DEGREES AND GREATER, PAVED SURFACES EXCEPT FOR CRACKS, THE ACTIVE WORKING FACE, THE MAIN HAUL ROAD

AND TEMPORARY STOCKPILES FIVE (5) FEET OR MORE IN HEIGHT. A TEMPORARY STOCKPILE DOES NOT INCLUDE A CLOSED LANDFILL FINAL COVER OR CAP.

3.2 Equipment Description and Specifications

A portable FID shall be used to instantaneously measure the concentration of TOC measured as methane at any location on the landfill. The FID shall meet the specifications listed in Sections 3.2.1 through 3.2.4 and shall be kept in good operating condition.

3.2.1 The portable analyzer shall meet the instrument specifications provided in Section 3 of U.S. EPA Method 21, except that:

3.2.1.1 "Methane" shall replace all references to VOC.

3.2.1.2 A response time of 15 seconds or shorter shall be used instead of 30 seconds.

3.2.1.3 A precision of 3% or better shall be used instead of 10%.

In addition the instrument shall meet the specifications in Sections 3.2.1.4 through 3.2.1.6.

3.2.1.4 A minimum detectable limit of 5 ppmv (or lower).

3.2.1.5 A flame-out indicator, audible and visual.

3.2.1.6 Operate at an ambient temperature of 0 - 50°C.

3.2.2 The calibration gas shall be methane, diluted to a nominal concentration of 10,000 ppmv in air for subsurface refuse boundary probe monitoring and sample analysis to comply with paragraph (e)(1) of Rule 1150.1, 50 ppmv in air for integrated sample analyses to comply with paragraph (e)(2) of Rule 1150.1 and 500 ppmv in air for instantaneous monitoring to comply with paragraph (e)(3) of Rule 1150.1.

3.2.3 To meet the performance evaluation requirements in Section 3.1.3 of U.S. EPA Method 21, the instrument evaluation procedures of Section 4.4 of U.S. EPA Method 21 shall be used.

3.2.4 The calibration procedures provided in Section 4.2 of U.S. EPA Method 21 shall be followed at the beginning of each day before commencing a surface monitoring survey.

3.3 Monitoring Procedures

3.3.1 The owner or operator shall monitor the landfill disposal area for TOC measured as methane using the described portable equipment.

3.3.2 The sampling probe shall be placed at a distance of 0-3 inches above any location of the landfill to take the readings.

3.3.3 At a minimum, an individually identified 50,000 square foot grid shall be used and a walk pattern as illustrated in Figure 2 shall be implemented including areas where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover.

ALTERNATIVE: THE LANDFILL MONITORING GRIDS ARE DIVIDED INTO THREE TYPES CONSISTING OF TYPE "A", TYPE "B" AND TYPE "C" AS REFERENCED IN THE MAP SUBMITTED 4/27/00 OR THE MOST RECENT UPDATE, WITH SHEET TITLE "PLAN-INTEGRATED SURFACE EMISSIONS MONITORING GRIDS". THE THREE TYPES OF GRIDS ARE DEFINED AS: TYPE "A" - NO EXCLUSIONS FROM SAMPLING; TYPE "B" - CONTAINING STEEP SLOPES OR STEEP SLOPES AND DENSE VEGETATION ON GRIDS 121, 122, 128, AND 130; AND TYPE "C" - THE AREA OF ACTIVE RECYCLING OPERATIONS. THE TOPOGRAPHIC MAP SHALL BE DRAWN TO SCALE CLEARLY IDENTIFYING TOPOGRAPHICAL FEATURES OF THE LANDFILL WITH CONTOUR LINES. THE LOCATION OF ALL MONITORING GRIDS AND THE GAS COLLECTION SYSTEM SHALL BE CLEARLY MARKED AND IDENTIFIED. THE SUBMITTED TOPOGRAPHICAL MAP WILL BE FILED IN THE APPLICATION FOLDER AND USED FOR COMPLIANCE. A SMALLER 11" BY 17" TOPOGRAPHICAL MAP IS ATTACHED TO THIS PLAN FOR FIELD REFERENCE. THE TOPOGRAPHICAL MAPS SHALL BE CONFIRMED OR UPDATED ANNUALLY BY THE OWNER/OPERATOR OR AS REQUESTED BY THE EXECUTIVE OFFICER.

MONITORING OF TYPE "A" SURFACE GRIDS SHALL BE ACCORDING TO THE RULE.

MONITORING OF TYPE "B" SURFACE GRIDS SHALL CONSIST OF MONITORING THE TOE OF GRIDS 121, 128, AND 130 AND THE TOP OF GRID 122. VACUUM READINGS FROM ALL GAS EXTRACTION WELLS LOCATED ON TYPE "B" GRIDS SHALL BE RECORDED MONTHLY AND INCLUDED IN THE QUARTERLY REPORT. GRIDS 121 AND 122 EACH DEFINED AS A TYPE "B" GRID, SHALL BE REDESIGNATED AS A TYPE "A" GRID WHEN ENOUGH ADDITIONAL REFUSE HAS BEEN PUT IN PLACE.

MONITORING OF TYPE "C" SURFACE GRIDS SHALL CONSIST OF MONITORING A COURSE OF APPROXIMATELY 2,600 LINEAR FEET BUT NOT LESS THAN 1900 LINEAR FEET IN EACH GRID, EXCLUDING STOCKPILES, STORED EQUIPMENT AND RECYCLING EQUIPMENT. RULE 1150.1, ATTACHMENT A, FIGURE 2 SHOWS A 50,000 SQUARE FOOT GRID WALK PATTERN THAT WILL BE MODIFIED TO AVOID THE EXCLUSIONS. VACUUM READINGS FROM ALL GAS EXTRACTION WELLS LOCATED ON TYPE "C" RECYCLING GRIDS SHALL BE RECORDED MONTHLY AND INCLUDED IN THE QUARTERLY REPORT.

3.4 Recording the Results

3.4.1 Record the location and concentration of TOC measured as methane for any instantaneous reading of 500 ppmv or greater on a topographic map of the landfill, drawn to scale with the location of both the grids and the gas collection system clearly marked and identified.

3.4.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

4.0 LANDFILL GAS SAMPLE FROM GAS COLLECTION SYSTEM
Subparagraph (e)(4) Requirement of Rule 1150.1

4.1 Number of Samples

Collect one monthly sample of landfill gas for analysis from the main gas collection header line entering the gas treatment and/or gas control system(s).

4.2 Sampling Procedure

Collect approximately a 10-liter sample in a Tedlar bag or equivalent container over a continuous ten-minute period.

4.3 Analytical Procedures

Samples collected shall be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

4.4 Chain of Custody (Required for samples sent to the lab)

A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

4.5 Recording the Results

4.5.1 Record the volume concentration of both TOC measured as methane and the volume concentration for the required TAC on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of the gas collection and control system clearly marked and identified.

4.5.2 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.

5.0 AMBIENT AIR SAMPLES AT THE LANDFILL PROPERTY BOUNDARY Subparagraph (e)(5) Requirement of Rule 1150.1

5.1 Number of Samples

Monthly ambient air samples shall be collected for analysis at the landfill property boundary from both an upwind and downwind sampler sited to provide good meteorological exposure to the predominant offshore (drainage land breeze) and onshore (sea breeze) wind flow patterns. The upwind and downwind samples shall be collected simultaneously over two 12 hour periods beginning between 9:00 a.m. and 10:00 a.m., and 9:00 p.m. and 10:00 p.m. on the same day or different days.

5.2 Ambient Air Sampling Conditions

Ambient air sampling shall be conducted on days when stable (offshore drainage) and unstable (onshore sea breeze) meteorological conditions are representative for the season. Preferable sampling conditions are characterized by the following meteorological conditions:

5.2.1 Clear cool nights with wind speeds of two miles per hour or less, and

5.2.2 Onshore sea breezes with wind speeds ten miles per hour or less.

No sampling will be conducted if the following adverse meteorological conditions exist:

5.2.3 Rain,

5.2.4 Average wind speeds greater than 15 miles per hour for any 30-minute period, or

5.2.5 Instantaneous wind speeds greater than 25 miles per hour.

Continuously recorded on-site wind speed and direction measurements required in paragraph (d)(9) of Rule 1150.1 will characterize the micrometeorology of the site and serve to verify that the meteorological criteria have been met during sampling.

5.3 Ambient Air Sampler Equipment Description

An ambient air sampling unit consists of a 10-liter Tedlar bag, a DC-operated pump, stainless steel capillary tubing to control the sample rate to the bag, a bypass valve to control the sample flow rate (and minimize back pressure on the pump), a Rotameter for flow indication to aid in setting the flow, a 24-hour clock timer to shut off the sampler at the end of the 24-hour sampling period, and associated tubing and connections (made of stainless steel, Teflon, or borosilicate glass to minimize contamination and reactivity). The physical layout of the sampler is shown in Figure 5.

An alternate ambient air sampler may be used, provided that the landfill owner or operator can show an equivalency with the sampler specifications in Section 5.3 and shown in Figure 5. All alternatives shall be submitted as specified in subdivision (i) of Rule 1150.1.

5.4 Ambient Air Sampler Equipment Specifications

The equipment used when conducting air samples at any landfill property boundary shall meet the following specifications:

5.4.1 Power: one 12V DC marine battery. The marine battery provides 12V DC to the pump and the clock.

5.4.2 Pump: one 12V DC pump. The diaphragm shall be made of non-lubricated Viton rubber. The maximum pump unloaded flow rate shall be 4.5 liters per minute.

5.4.3 Bag: One **10-liter Tedlar bag** with a valve. The Tedlar bag shall be enclosed in a LIGHT-SEALED CONTAINER. The valve is a push-pull type constructed of aluminum and stainless steel, with a Viton or Buna-N (butadiene acrylonitrile co-polymer) o-ring seal.

5.4.4 Rotameter - made of borosilicate glass and has a flow range of 3-to-50 cubic centimeters per minute. The scale is in millimeters (mm) with major graduations (labeled) every 5 mm and minor graduations every 1 mm.

5.4.5 Air flow control orifice: 316 stainless steel capillary tubing.

5.4.6 Bypass valve.

5.4.7 Fittings, tubing, and connectors -- 315 stainless steel or Teflon.

5.4.8 Clock timer with an accuracy of better than 1%.

5.5 Ambient Air Sample Analytical Procedures

Samples collected must be analyzed no later than 72 hours after collection for TOC using U.S. EPA Method 25, 40 CFR, Part 60, Appendix A analysis or a portable FID that meets the requirements in Section 3.2 and for the TAC specified in Table 1 and upon written request, Table II, using U.S. EPA Compendium Method TO-14.

5.6 Chain of Custody (Required for samples sent to the lab)

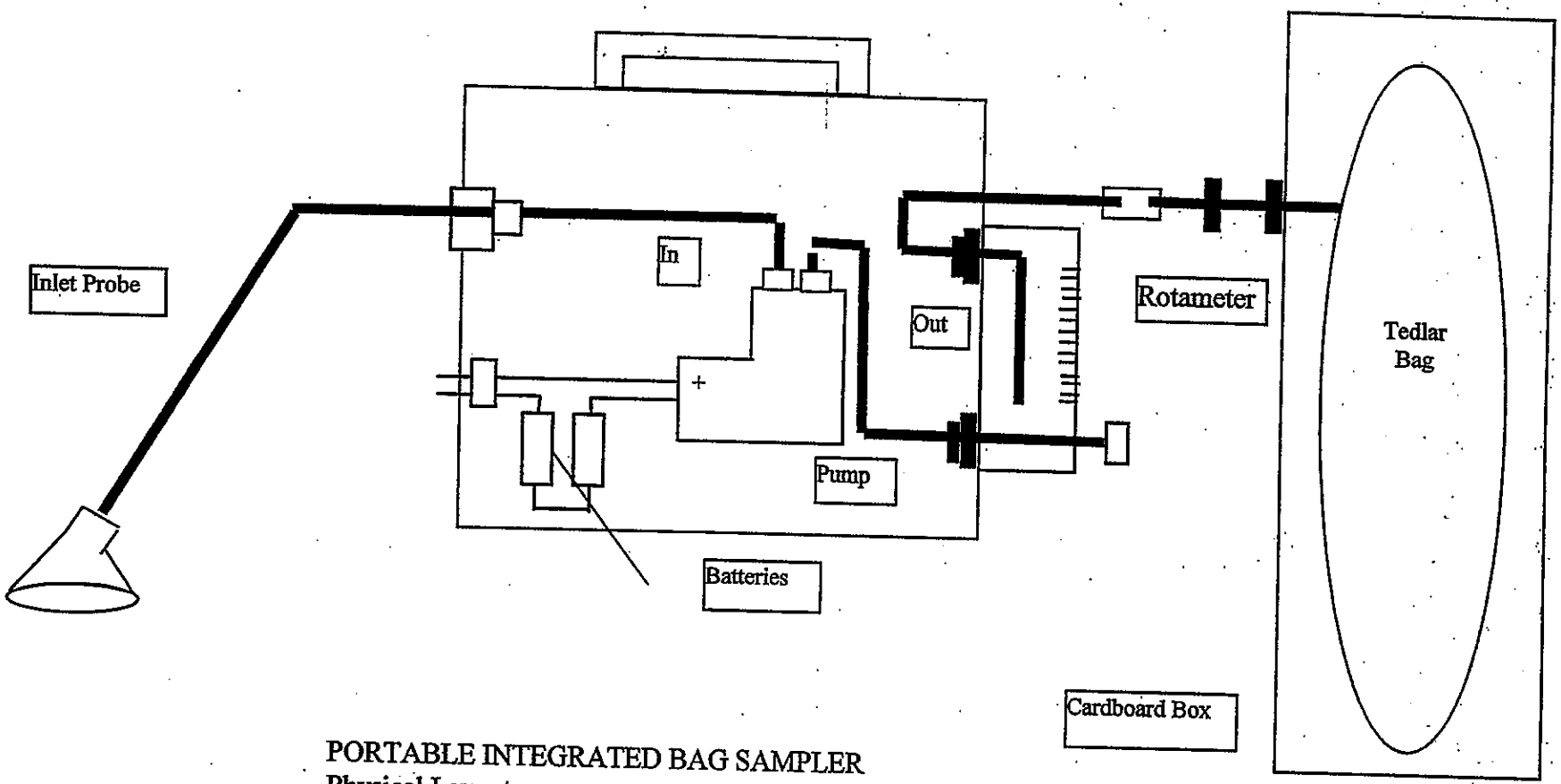
A custody sheet shall accompany the bag samples. Each time a bag changes hands, it shall be logged on the custody sheet with the time of custody transfer recorded. Laboratory personnel shall record the condition of the sample (full, three-fourths full, one-half full, one-fourth full, or empty). An example of a custody sheet is shown in Figure 4.

5.7 Recording the Results

5.7.1 Record the volume concentration of TOC measured as methane and the volume concentration of TAC for each sample on a quality control sheet as shown in Figure 3. Include a topographic map drawn to scale with the location of both the upwind and downwind samplers and the gas collection and control system clearly marked and identified.

5.7.2 Record the wind speed and direction during the 24-hour sampling period using the wind speed and direction monitoring system required in paragraph (d)(9) of Rule 1150.1.

5.7.3 Maintain and submit the results as specified in subdivision (f) of Rule 1150.1.



PORTABLE INTEGRATED BAG SAMPLER
Physical Layout

Figure 1

Typical Landfill Walk Pattern
for a 50,000 Square Foot Grid

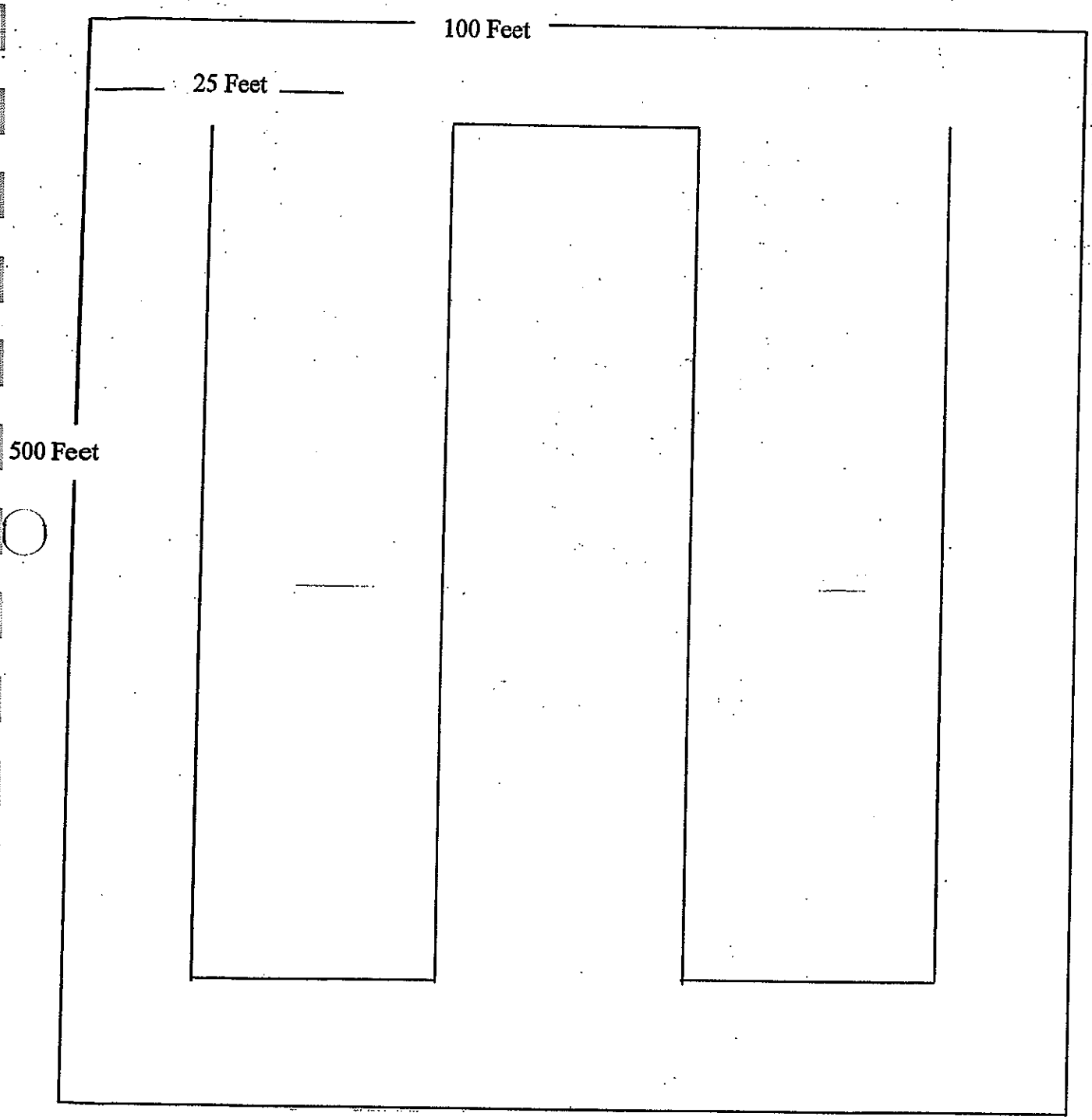


Figure 2

QUALITY CONTROL SHEET

- Prior to use, the Tedlar bag system shall be leak checked, evacuated and filled with purified nitrogen three times to flush out the old sample.
- All samples must be kept in LIGHT-SEALED CONTAINERS to avoid photochemical reactions.

OPERATION					BAG SAMPLES				COMMENTS
Grid or probe #	Date	Wind Speed	Time On	Time Off	I.D.#	Valve Open	Rotameter Reading	Pump (On/Off)	
Signature:									

Figure 3

BAG SAMPLE CUSTODY FORM

Project _____ Date: _____

Bag (I.D. #)									
Condition Received in Lab*									

Bags Prepared By: _____ Time: _____

Date: _____

Bags Taken Out By: _____ Time: _____

Bags Taken to Lab By _____

Bags Received In Lab By: _____ Time _____

* F = 1/2 full to full, 0 = Overfull (Bulging), L = 1/4 to 1/2 full,
E = Less than 1/4 full but contains some sample, N = No sample at all.

Figure 4

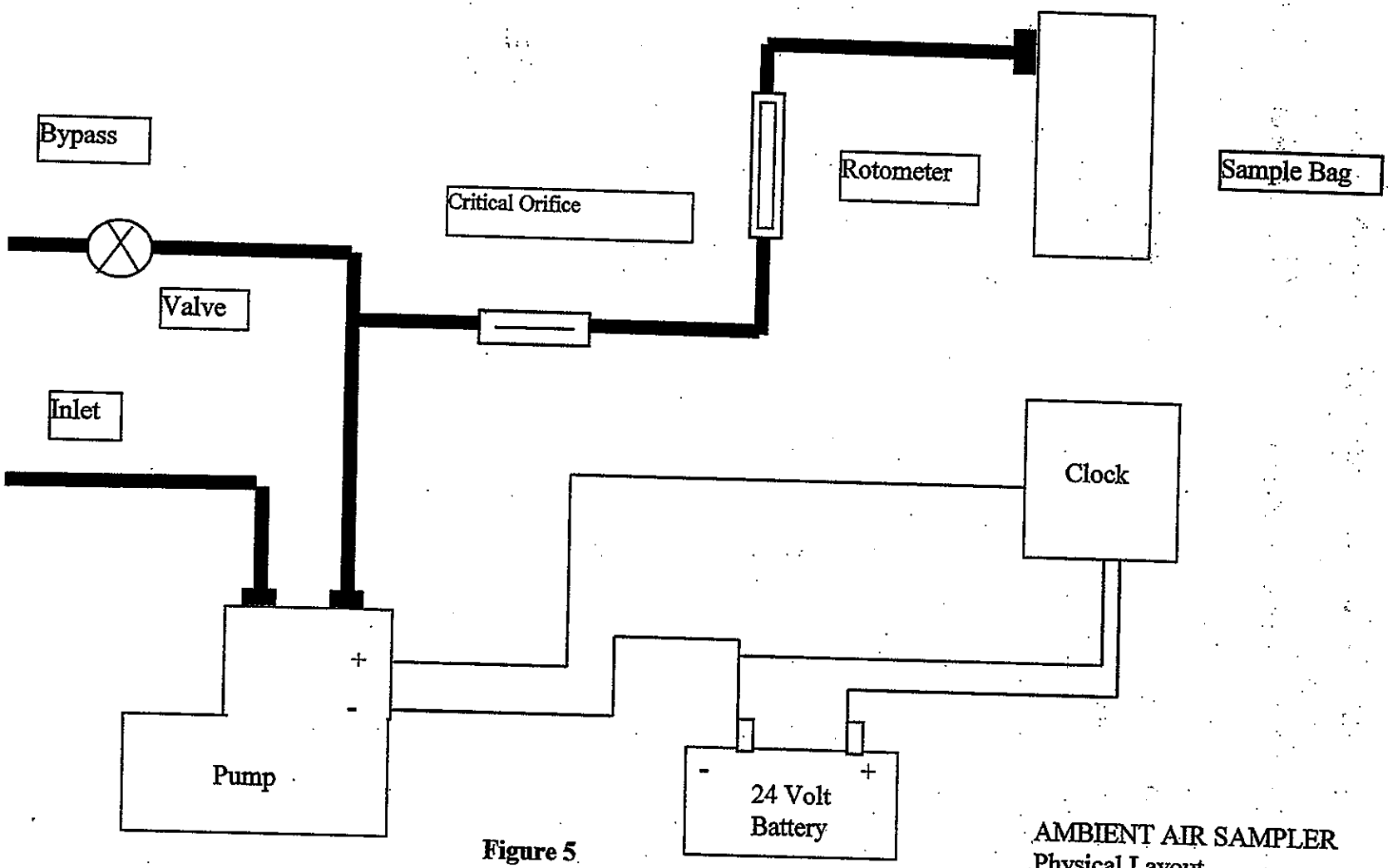


Figure 5

AMBIENT AIR SAMPLER
Physical Layout

TABLE 1 - CARCINOGENIC AND TOXIC AIR CONTAMINANTS (Core Group)

Paragraph (e)(2), Subparagraphs (k)(3)(F) and (k)(3)(G) Requirements of Rule 1150.1

1.	Benzene	C_6H_6
2.	Benzyl Chloride	$C_6H_5H_2C1$
3.	Chlorobenzene	C_6H_5C1
4.	1,2 Dibromoethane (Ethylene Dibromide)	$BrCH_2CH_2Br$
5.	Dichlorobenzene	$C_6H_4C1_2$
6.	1,1 Dichloroethane (Ethylidene Chloride)	CH_3CHC1_2
7.	1,2 Dichloroethane (Ethylene Dichloride)	$C1H_2H_2C1$
8.	1,1 Dichloroethene (Vinylidene Chloride)	$CH_2 : CC1_2$
9.	Dichloromethane (Methylene Chloride)	CH_2C1_2
10.	Hydrogen Sulfide	H_2S
11.	Tetrachloroethylene (Perchloroethylene)	$C1_2C : CC1_2$
12.	Tetrachloromethane (Carbon Tetrachloride)	$CC1_4$
13.	Toluene	$C_6H_5CH_3$
14.	1,1,1 Trichloroethane (Methyl Chloroform)	CH_3CC1_3
15.	Trichloroethylene	$CHC1 : CC1_2$
16.	Trichloromethane (Chloroform)	$CHC1_3$
17.	Vinyl Chloride	$CH_2 : CHC1$
18.	Xylene	$C_6H_4(CH_3)_2$

TABLE 2 - CARCINOGENIC AND TOXIC AIR CONTAMINANTS
(Supplemental Group)
Paragraph (e)(2), Subparagraphs (k)(3)(F) and (k)(3)(G) Requirements of Rule 1150.1

1.	Acetaldehyde	CH3CHO
2.	Acrolein	CH2CHCHO
3.	Acrylonitrile	H2C : CHCN
4.	Allyl Chloride	H2C : CHCH2C1
5.	Bromomethane (Methyl Bromide)	CH3Br
6.	Chlorinated Phenols	
7.	Chloroprene	H2C : CHCC1 : CH2
8.	Cresol	CH3C6H4OH
9.	Dialkyl Nitrosamines	
10.	1,4 - Dioxane	OCH2CH2OCH2CH2
11.	Epichlorohydrin	CH2OCHCH2C1
12.	Ethylene Oxide	CH2CH2O
13.	Formaldehyde	HCHO
14.	Hexachlorocyclopentadiene	C5C16
15.	Nitrobenzene	C6H5NO2
16.	Phenol	C6H5OH
17.	Phosgene	COC12
18.	Polychlorinated Dibenzo-P-Dioxin	
19.	Polychlorinated Dibenzo Furan	
20.	Polychlorinated Biphenols	
21.	Polynuclear Aromatic Hydrocarbons	
22.	Propylene Oxide	CH2-CH-CH3
23.	Tetrahydrothiophene	CH2CH2CH2CH2S
24.	Thiophene	CHCHCHCHS

Attachment B

TITLE 27. Environmental Protection

Division 2. Solid Waste

Subdivision 1. Consolidated Regulations for Treatment, Storage, Processing or Disposal of Solid

Chapter 3. Criteria for All Waste Management Units, Facilities, and Disposal Sites
Subchapter S. Closure and Post-Closure Maintenance
Article 2. Closure and Post-Closure Maintenance Standards for Disposal Sites and Landfills

§21140. Section CIWMB – Final Cover. (TI4:§17773)

(a) The final cover shall function with minimum maintenance and provide waste containment to protect public health and safety by controlling at a minimum, vectors, fire, odor, litter and landfill gas migration. The final cover shall also be compatible with postclosure land use.
(b) In proposing a final cover design meeting the requirements under §21090, the owner or operator shall assure that the proposal meets the requirements of this section. Alternative final cover designs shall meet the performance requirements of ¶(a) and, for MSWLF units, 40 CFR 258.60(b); shall be approved by the enforcement agency for aspects of ¶(a).
(c)The EA may require additional thickness, quality, and type of final cover depending on, but not limited to the following:
(1) a need to control landfill gas emissions and fires;
(2) the future reuse of the site; and
(3) provide access to all areas of the site as needed for inspection of monitoring and control facilities, etc.

NOTE

Authority cited: Sections 40502 and 43020, Public Resources Code; and Section 66796.22 (d), Government Code. Reference: Sections 43021 and 43103, Public Resources Code; and Section 66796.22(d), Government Code.

HISTORY

1. New section filed 6-18-97; operative 7-18-97 (Register 97, No. 25).

Attachment C

TITLE 27. Environmental Protection

Division 2. Solid Waste

Subdivision 1. Consolidated Regulations for Treatment, Storage, Processing or Disposal of Solid

Chapter 3. Criteria for All Waste Management Units, Facilities, and Disposal Sites

Subchapter 2. Siting and Design

Article 2. SWRCB -- Waste Classification and Management

§20200. SWRCB -- Applicability and Classification Criteria. (CI5: §2520)

(a) Concept--This article contains a waste classification system which applies to solid wastes that cannot be discharged directly or indirectly to waters of the state and which therefore must be discharged to waste management units (Units) for treatment, storage, or disposal in accordance with the requirements of this division. Wastes which can be discharged directly or indirectly *(e.g., by percolation)* to waters of the state under effluent or concentration limits that implement applicable water quality control plans *(e.g., municipal or industrial effluent or process wastewater)* are not subject to the SWRCB-promulgated provisions of this division. This waste classification system shall provide the basis for determining which wastes may be discharged at each class of Unit. Waste classifications are based on an assessment of the potential risk of water quality degradation associated with each category of waste.

(1) The waste classifications in this article shall determine where the waste can be discharged unless the waste does not consist of or contain municipal solid waste (MSW) and the discharger establishes to the satisfaction of the RWQCB that a particular waste constituent or combination of constituents presents a lower risk of water quality degradation than indicated by classification according to this article.

(2) Discharges of wastes identified in §20210 or §20220 of this article shall be permitted only at Units which have been approved and classified by the RWQCB in accordance with the criteria established in Article 3 of this subchapter, and for which WDRs have been prescribed or waived pursuant to Article 4, Subchapter 3, Chapter 4 of this subdivision (§21710 et seq.). Table 2.1 (of this article) presents a summary of discharge options for each waste category.

(b) Dedicated Units/Cells For Certain Wastes--The following wastes shall be discharged only at dedicated Units [or dedicated landfill cells *(e.g., ash monofill cell)*] which are designed and constructed to contain such wastes:

(1) wastes which cause corrosion or decay, or otherwise reduce or impair the integrity of containment structures;

(2) wastes which, if mixed or commingled with other wastes can produce a violent reaction (including heat, pressure, fire or explosion), can produce toxic byproducts, or can produce any reaction product(s) which:

(A) requires a higher level of containment;

(B) is a restricted waste; or

(C) impairs the integrity of containment structures.

(c) Waste Characterization--Dischargers shall be responsible for accurate characterization of

wastes, including determinations of whether or not wastes will be compatible with containment features and other wastes at a Unit under ¶(b), and whether or not wastes are required to be managed as hazardous wastes under Chapter 11 of Division 4.5 of Title 22 of this code.
(d) Management of Liquids at Landfills and Waste Piles--The following requirements apply to discharges of liquids at Class II waste piles and at Class II and Class III landfills, except as otherwise required for MSW landfills by more-stringent state and federal requirements under SWRCB Resolution No. 93-62 section 2908 of Title 23 of this Code (see 40CFR258.28) *[Note: see also definitions of "leachate" and "landfill gas condensate"* in §20164*]:*
(1) [Reserved.];

(2) wastes containing free liquids shall not be discharged to a Class II waste pile. Any waste that contains liquid in excess of the moisture-holding capacity of the waste in the Class II landfill, or which contains liquid in excess of the moisture-holding capacity as a result of waste management operations, compaction, or settlement shall only be discharged to a surface impoundment or to another Unit with containment features equivalent to a surface impoundment; and
(3) liquids or semi-solid waste (i.e., waste containing less than 50 percent solids, by weight), other than dewatered sewage or water treatment sludge as described in §20220(c), shall not be discharged to Class III landfills. Exceptions may be granted by the RWQCB if the discharger can demonstrate that such discharge will not exceed the moisture-holding capacity of the landfill, either initially or as a result of waste management operations, compaction, or settlement, so long as such discharge is not otherwise prohibited by applicable state or federal requirements.

APPENDIX B

SUBSURFACE PERIMETER PROBE MONITORING

- Field Sheets
- Laboratory Analysis
- Sample Chain-of-Custody
- Instrumentation Calibration

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 29.02

BAROMETRIC (after): 28.99

TECHNCIAN: Reyes Trejo

DATE: 7/2/04 DATE: 7/2/04 DATE: 7/2/04

START TIME: 13:30 START TIME: 14:00 START TIME: 14:10

FINISH TIME: 13:55 FINISH TIME: 14:05 FINISH TIME: 14:25

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	ND
W2B		
W-3S		
W-3M	+0.0	ND
W-3D	+0.0	ND
W-4		
W-5S		
W-5M		
W-5D	+0.0	ND
W-6		
W-7S		
W-7M		
W-7D	+0.0	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	ND
W-10D	−0.0	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	−0.0	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	−0.0	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
E-1	−0.1	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	−0.2	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	−0.7	ND
E-12		
E-13		
E-14S		
E-14M	−0.2	ND
E-14D	−0.2	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7406)

TECHNICIAN: Ramon Ibarra

DATE: 9/6/04

START TIME: 1320

FINISH TIME: 1405

BAROMETRIC (before): 29.00

BAROMETRIC (after): 28.97

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		0
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.2	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%CH4)
E-1	-0.1	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4	+0.0	0.0
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.7	0.0
E-12		
E-13		
E-14S		
E-14M	~~+0~~ -0.1	0.0
E-14D	-0.2	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~600~~ 2000 (Serial No. 7406)

BAROMETRIC (before): 29.00

BAROMETRIC (after): 28.99

TECHNICIAN: Ramon Ibarra

DATE: 7/7/04 DATE: _____ DATE: _____

START TIME: 1415 START TIME: _____ START TIME: _____

FINISH TIME: 1440 FINISH TIME: _____ FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D	-	
W-2A	-0.5	0.0
W2B		
W-3S		
W-3M	-0.7	0.0
W-3D	-0.6	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.8	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.7	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.5	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~600~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

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Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 28.88

BAROMETRIC (after): 28.88

TECHNCIAN: RAUL BORGATO

DATE: 7/8/04 DATE: DATE:

START TIME: 15.03 START TIME: START TIME:

FINISH TIME: 15. FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	+8.0	0.0
W2B		
W-3S		
W-3M	-0.8	0.0
W-3D	-0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.5	0.1
W-10D	-0.5	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7406)

BAROMETRIC (before): 28.89

BAROMETRIC (after): 28.88

TECHNCIAN: RAUL BONGATO

DATE: 7/9/04 | DATE: | DATE:

START TIME: 13:14 | START TIME: | START TIME:

FINISH TIME: 14:13 | FINISH TIME: | FINISH TIME:

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M		
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M	-0.1	0.0
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.2	0.0
W-10D	-0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.2	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.2	0.0

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	-0.1	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.1	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.2	0.0
E-12		
E-13		
E-14S		
E-14M		
E-14D	-0.1	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7406)

TECHNCIAN: RAUL BONGATO

DATE: 7/12/04

START TIME: 13:31

FINISH TIME: 13:57

BAROMETRIC (before): 28.85

BAROMETRIC (after): 28.82

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (inWC)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-69.5	0.0
W2B		
W-3S		
W-3M	-69.8	0.0
W-3D	-69.9	0.0
W-4		
W-5S		
W-5M		
W-5D	-70.4	0.0
W-6		
W-7S		
W-7M		
W-7D	-70.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-69.7	0.0
W-10D	-70.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inWC)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (inWC)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

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Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7407)

TECHNICIAN: RAUL BONGATO

DATE: 7/13/04

START TIME: 12:48

FINISH TIME: 13:51

BAROMETRIC (before): 28.82

BAROMETRIC (after): 28.77

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.4	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.3	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.2	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	-0.4	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.2	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.8	0.0
E-12		
E-13		
E-14S		
E-14M	-0.1	0.0
E-14D	+0.4	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07189027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~600~~ 2000 (Serial No. 7401)

BAROMETRIC (before): 28.87

BAROMETRIC (after): 28.86

TECHNCIAN: RAUL BONGATO

DATE: 7/14/04 DATE: _____ DATE: _____

START TIME: 13:16 START TIME: _____ START TIME: _____

FINISH TIME: 13:37 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	LGC (%LEL)
W-1S		
W-1M		
W-1D		
W-2A	-0.9	0.0
W2B		
W-3S		
W-3M	-0.6	0.0
W-3D	-0.6	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.9	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.8	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.7	0.0
W-10D	-0.6	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	LGC (%LEL)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	LGC (%LEL)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~600~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

BAROMETRIC (before): 29.01

BAROMETRIC (after): 29.04

TECHNICIAN: RAUL BONGATO

DATE: 7/15/04 DATE: _____ DATE: _____

START TIME: 13:11 START TIME: _____ START TIME: _____

FINISH TIME: 13:30 FINISH TIME: _____ FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM-~~500~~ CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

BAROMETRIC (before): 28.89

BAROMETRIC (after): 28.96

TECHNICIAN: Reyes Troyo

DATE: 7/16/04

START TIME: 15:30

FINISH TIME: 14:10

DATE:

START TIME: 14:10

FINISH TIME: 14:15

DATE: 7/16/04

START TIME: 14:20

FINISH TIME: 14:40

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	0.0	ND
W2B		
W-3S		
W-3M	0.0	ND
W-3D	-0.1	ND
W-4		
W-5S		
W-5M		
W-5D	-0.1	ND
W-6		
W-7S		
W-7M		
W-7D	0.0	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.2	ND
W-10D	+0.1	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	ND
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	0.0	ND

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	0.0	ND
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	0.0	ND
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	0.0	ND
E-12		
E-13		
E-14S		
E-14M	0.0	ND
E-14D	0.0	ND

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7401)

TECHNCIAN: Ramon Ibarra

DATE: 7/19/04

START TIME: 1430

FINISH TIME: 1500

BAROMETRIC (before): 28.83

BAROMETRIC (after): 28.84

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in W.C)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.5	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in W.C)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 45%
GEM ~~500~~ CALIBRATED TO ~~2.5%~~ CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7401)

BAROMETRIC (before): 29.01

BAROMETRIC (after): 29.04

TECHNICIAN: Ramon Ibarra

DATE: 7/20/04 DATE: _____ DATE: _____

START TIME: 1330 START TIME: _____ START TIME: _____

FINISH TIME: 1445 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.3	0.0
W-14M		
W-14D	-0.3	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.1	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.2	0.0
E-12		
E-13		
E-14S		
E-14M	-0.3	0.0
E-14D	+0.0	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Month End Probes

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No.)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.83

BAROMETRIC (after): 28.90

DATE: 7/20/04 + 7/21/04	DATE: 7/22/04	DATE: 7/26/04
START TIME: 1330	START TIME: 1400	START TIME: 0845
FINISH TIME: 1430	FINISH TIME: 1505	FINISH TIME: 1210

PROBE I.D.	STATIC PRESSURE (in.W.C.)	LFG (%CH4)
W-1S	+0.0	0.0
W-1M	+0.02	0.0
W-1D	+0.1	0.0
W-2A	+0.0	0.0
W2B	+0.0	0.0
W-3S	+0.1	0.0
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4	+0.0	0.0
W-5S	+0.0	0.0
W-5M	+0.0	0.0
W-5D	+0.01	0.0
W-6	+0.0	0.0
W-7S	+0.0	0.0
W-7M	+0.0	0.0
W-7D	+0.0	0.0
W-8	-0.0	0.0
W-9A	+0.0	0.0
W-9B	+0.0	0.0
W-10S	+0.1	0.0
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11	+0.0	0.0
W-12S	+0.0	0.0
W-12M	+0.1	0.0
W-12D	+0.0	0.0
W-13	+0.0	0.0
W-14S	+0.0	0.0
W-14M	+0.0	0.0
W-14D	+0.1	0.0

PROBE I.D.	STATIC PRESSURE (in.W.C.)	LFG (%CH4)
S-1A	N/A	—
S-2B	N/A	—
S-3S	+0.0	0.0
S-3M1	+0.1	0.0
S-3M2	+0.0	0.0
S-3D	+0.0	0.0
S-4	+0.0	0.0
S-5	+0.0	0.0
S-6S	+0.0	0.0
S-6M1	+0.0	0.0
S-6M2	+0.0	0.0
S-6D	+0.0	0.0
S-7	+0.0	0.0
S-8	+0.0	0.0
S-9S-R	+0.0	0.0
S-9M1-R	+0.0	0.0
S-9M2-R	+0.0	0.0
S-9D-R	+0.0	0.0
S-10R	+0.0	0.0
S-11R	+0.0	0.0
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in.W.C.)	LFG (%CH4)
E-1		0.0
E-2S		0.0
E-2M		0.0
E-2D		0.0
E-3		0.0
E-4		0.0
E-5S		0.0
E-5M		0.0
E-5D		0.0
E-6		0.0
E-7		0.0
E-8S		0.0
E-8M		0.0
E-8D		
E-9		0.0
E-10		0.0
E-11S-R		0.0
E-11M-R		0.0
E-11D-R		0.0
E-12		0.0
E-13		0.0
E-14S		0.0
E-14M		0.0
E-14D		0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO ~~2.5%~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

DATE: 7/21/04

START TIME: 1345

FINISH TIME: 1405

BAROMETRIC (before): 28.86

BAROMETRIC (after): 28.89

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~35~~ 15 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

BAROMETRIC (before): 28.84

BAROMETRIC (after): 28.85

TECHNCIAN: RAUL BONGATO

DATE: 7/22/04 DATE: DATE:

START TIME: 13:27 START TIME: START TIME:

FINISH TIME: 13:43 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 15 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

TECHNCIAN: RAUL BONGATO

DATE: 7/23/04

START TIME: 13:26
FINISH TIME: 14:05

BAROMETRIC (before): 28.80
BAROMETRIC (after): 28.88

DATE: _____

START TIME: _____
FINISH TIME: _____

DATE: _____

START TIME: _____
FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (in W.C.)	TGC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.2	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TGC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TGC (%CH4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.1	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.4	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	-0.1	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 45 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

BAROMETRIC (before): 28.89

BAROMETRIC (after): 28.92

TECHNCIAN: RAUL BONGATO

DATE: 7/26/04 DATE: DATE:

START TIME: 13:45 START TIME: START TIME:

FINISH TIME: 13:59 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in.W.C.)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M		
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in.W.C.)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% 15% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

PM – Daily Readings

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 2000 (Serial No. 7252)

TECHNICIAN: Raman Ibam

BAROMETRIC (before): 28.86

BAROMETRIC (after): 28.94

DATE: 7/27/04 | DATE: | DATE:

START TIME: 1310 | START TIME: | START TIME:

FINISH TIME: 1520 | FINISH TIME: | FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.2	0.0
W2B		
W-3S		
W-3M	-0.4	0.0
W-3D	-0.3	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.2	0.0
W-10D	+0.3	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.0	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1	+0.2	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D	+0.0	0.0
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.0	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 15.0% / 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

Probe Monitoring by (LEA) Inspector: Marty

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No.)

TECHNICIAN: Marty / Ramon Shaw E.I

DATE: 7/27/04

START TIME: 1400

FINISH TIME: 1500

BAROMETRIC (before):

BAROMETRIC (after):

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE (in W.C)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A		
W2B		
W-3S		0.0
W-3M		0.0
W-3D		0.0
W-4		
W-5S		0.0
W-5M		0.0
W-5D		0.0
W-6		
W-7S		0.0
W-7M		0.0
W-7D		0.0
W-8		
W-9A		
W-9B		0.0
W-10S		0.0
W-10M		0.0
W-10D		0.0
W-11		
W-12S		0.0
W-12M		0.0
W-12D		0.0
W-13		
W-14S		0.0
W-14M		0.0
W-14D		0.0

PROBE ID	STATIC PRESSURE (in W.C)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		0.0
S-9M1-R		0.0
S-9M2-R		0.0
S-9D-R		0.0
S-10R		
S-11R		
S-12		0.0

PROBE ID	STATIC PRESSURE (in W.C)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		0.0 @
E-14D		0.0 @

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 15.0% CH_4

* Submitted for laboratory analyses.

@ 1400 7/27/04

– Marty, From (LEA) monitors wells (see above)

0.0 % found on probes monitored.

– used Landtec 2000 from (LEA)

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

TECHNICIAN: RAUL BONGATO

DATE: 7/28/04

START TIME: 14:07
FINISH TIME: 14:34

BAROMETRIC (before): 28.91
BAROMETRIC (after): 28.92

DATE: _____

START TIME: _____
FINISH TIME: _____

DATE: _____

START TIME: _____
FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (inWC)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.1	0.0
W2B		
W-3S		
W-3M	+0.1	0.0
W-3D	+0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.2	0.0
W-10D	+0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inWC)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (inWC)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 15 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

BAROMETRIC (before): 28.90

BAROMETRIC (after): 28.90

TECHNCIAN: RAUL BONGATO

DATE: 7/29/04 | DATE: | DATE:

START TIME: 13:14 | START TIME: | START TIME:

FINISH TIME: 19:27 | FINISH TIME: | FINISH TIME:

PROBE I.D	STATIC PRESSURE (in.W.C.)	LOC (%LEL)
W-1S		
W-1M		
W-1D		
W-2A	+0.2	0.0
W2B		
W-3S		
W-3M	+0.1	0.0
W-3D	+0.3	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D	STATIC PRESSURE (in.W.C.)	LOC (%LEL)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D	STATIC PRESSURE (in.W.C.)	LOC (%LEL)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM-~~500~~ CALIBRATED TO 15% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: August 2, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: July 26, 2004
Date Analyzed: July 26 & 27, 2004

AtmAA Lab No.:	02084-1
Sample I.D.:	Probe E8D BL-010
Components	(Concentration in %,v)
Nitrogen	28.2
Oxygen	5.77
Methane	38.4
Carbon dioxide	24.6
	(Concentration in ppmv)
TGNMO	588
Hydrogen sulfide	<0.5
	(Concentration in ppbv)
Benzene	<20
Benzylchloride	<40
Chlorobenzene	<30
Dichlorobenzenes*	<30
1,1-dichloroethane	<30
1,2-dichloroethane	<20
1,1-dichloroethylene	<30
Dichloromethane	<30
1,2-dibromoethane	<30
Perchloroethylene	<20
Carbon tetrachloride	<30
Toluene	32.6
1,1,1-trichloroethane	<20
Trichloroethene	<20
Chloroform	<20
Vinyl chloride	1060
m+p-xylenes	<30
o-xylene	<20

The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.
The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
TGNMO is total geseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: July 26, 2004
Date Analyzed: July 26 & 27, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in %,v)			
Nitrogen	Probe E8D	28.0	28.5	28.2	0.88
Oxygen	Probe E8D	5.71	5.83	5.77	1.0
Methane	Probe E8D	38.3	38.4	38.4	0.13
Carbon dioxide	Probe E8D	24.7	24.6	24.6	0.20
		(Concentration in ppmv)			
TGNMO	Probe E8D	600	577	588	2.0
Hydrogen sulfide	Probe E8D	<0.5	<0.5	---	---
		(Concentration in ppbv)			
Benzene	Probe E8D	<20	<20	---	---
Benzylchloride	Probe E8D	<40	<40	---	---
Chlorobenzene	Probe E8D	<30	<30	---	---
Dichlorobenzenes	Probe E8D	<30	<30	---	---
1,1-dichloroethane	Probe E8D	<30	<30	---	---
1,2-dichloroethane	Probe E8D	<20	<20	---	---
1,1-dichloroethylene	Probe E8D	<30	<30	---	---
Dichloromethane	Probe E8D	<30	<30	---	---
1,2-dibromoethane	Probe E8D	<30	<30	---	---
Perchloroethylene	Probe E8D	<20	<20	---	---
Carbon tetrachloride	Probe E8D	<30	<30	---	---
Toluene	Probe E8D	31.0	34.1	32.6	4.8

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
1,1,1-trichloroethane	Probe E8D	<20	<20	---	---
Trichloroethene	Probe E8D	<20	<20	---	---
Chloroform	Probe E8D	<20	<20	---	---
Vinyl chloride	Probe E8D	1060	1060	1060	0.0
m+p-xylenes	Probe E8D	<30	<30	---	---
o-xylene	Probe E8D	<20	<20	---	---

One Tedlar bag sample, laboratory number 02084-1, was analyzed for SCAQMD Rule 1150.1 components, permanent gases, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 7 repeat measurements from the one Tedlar bag sample is 1.3%.

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

BAROMETRIC (before): 28.94

TECHNICIAN: RAUL BONILATO

BAROMETRIC (after): 28.93

DATE: 8/2/04

DATE: _____

DATE: _____

START TIME: 13:15

FINISH TIME: 14:00

START TIME: _____

FINISH TIME: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in WC)	LFG (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	-0.2	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.6	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.4	0.0
W-10D	-0.5	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in WC)	LFG (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in WC)	LFG (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1,3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No.)

BAROMETRIC (before): 28.87

BAROMETRIC (after): 28.93

TECHNICIAN: RAUL BONGATO

DATE: 8/3/04 DATE: DATE:

START TIME: 13:07 START TIME: START TIME:

FINISH TIME: 14:06 FINISH TIME: FINISH TIME:

PROBE ID	STATIC PRESSURE (inWC)	LFG % (CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.2	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inWC)	LFG % (CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE ID	STATIC PRESSURE (inWC)	LFG % (CH4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+0.3	0.0
E-12		
E-13		
E-14S		
E-14M	-0.1	0.0
E-14D	+0.0	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~25~~ 15% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7852)

BAROMETRIC (before): 28.85

TECHNICIAN: Ramon Ibarra

BAROMETRIC (after): 28.88

DATE: 8/12/04

START TIME: 1330

FINISH TIME: 1400

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in W.C.)	LOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C.)	LOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in W.C.)	LOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% ~~CH4~~ 15.0%

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

BAROMETRIC (before): 28.90

TECHNCIAN: RAUL BONGATO

BAROMETRIC (after): 28.92

DATE: 8/5/04 DATE: _____ DATE: _____

START TIME: 13:09 START TIME: _____ START TIME: _____

FINISH TIME: 13:32 FINISH TIME: _____ FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in W.C)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.4	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in W.C)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 CALIBRATED TO 2.5% CH_4 15%

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

TECHNCIAN: RAUL BONGATO

DATE: 8/6/04

START TIME: 13:09

FINISH TIME: 14:14

BAROMETRIC (before): 28.93

BAROMETRIC (after): 28.96

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (inWC)	LOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.6	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.4	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.0	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inWC)	LOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.1	0.0

PROBE ID	STATIC PRESSURE (inWC)	LOC (%CH4)
E-1	+0.1	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.6	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	-0.2	0.0

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1,3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~500~~ 2000 GEM ~~2.5%~~ 15% CALIBRATED TO CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.91 ~~29.10~~ RD

BAROMETRIC (after): 28.93

DATE: 8-9-04

START TIME: 1250

FINISH TIME: 1310

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in WC)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.2	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.3	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.3	0.0
W-10D	-0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in WC)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in WC)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO ~~25~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No GM07252

BAROMETRIC (before): 28.85

TECHNICIAN: RAUL BONGATO

BAROMETRIC (after): 28.87

DATE: 8/11/04 DATE: DATE:

START TIME: 13:33 START TIME: START TIME:

FINISH TIME: 13:53 FINISH TIME: FINISH TIME:

PROBE I.D.	STATIC PRESSURE (inW.C)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.2	0.0
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	-0.3	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.4	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.4	0.0
W-10D	-0.3	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inW.C)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (inW.C)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM ~~500~~ CALIBRATED TO ~~2.5~~ 15.0 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RACHL BONGATO

BAROMETRIC (before): 28.95

BAROMETRIC (after): 28.96

DATE: 8/12/04

START TIME: 13:22

FINISH TIME: 13:43

PROBE ID	STATIC PRESSURE (inW.C.)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.3	0.0
W2B		
W-3S		
W-3M	-0.5	0.0
W-3D	-0.6	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.2	0.0
W-10D	-0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE (inW.C.)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE (inW.C.)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 15.0% 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

DATE: 8/13/04

START TIME: 13:48
FINISH TIME: 14:59

BAROMETRIC (before): 28.89
BAROMETRIC (after): 28.93

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (inWC)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.3	0.0
W-3D	-0.3	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.4	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.4	0.0
W-10D	-0.4	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.2	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inWC)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.2	0.0

PROBE I.D.	STATIC PRESSURE (inWC)	LFG (%CH4)
E-1	-0.1	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.1	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.4	0.0
E-12		
E-13		
E-14S		
E-14M	-0.2	0.0
E-14D	-0.2	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5%~~ 15% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

DATE: 8/16/04

START TIME: 1335

FINISH TIME: 1400

BAROMETRIC (before): 28.95

BAROMETRIC (after): 28.93

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.3	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M	~~-0.1~~	
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in W.C.)	TOC (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO ~~2.5~~ 15.0 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

BAROMETRIC (before): 28.95

TECHNICIAN: RAUL BONILLA

BAROMETRIC (after): 28.98

DATE: 8/17/04 DATE: _____ DATE: _____

START TIME: 13:07 START TIME: _____ START TIME: _____

FINISH TIME: 14:05 FINISH TIME: _____ FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%VOL)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.2	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%VOL)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.1	0.0

PROBE I.D.	STATIC PRESSURE (inW.C.)	TOC (%VOL)
E-1	+0.2	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.2	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.1	0.0
E-14D	+0.0	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 15.0 %
GEM ~~500~~ CALIBRATED TO ~~2.5% CH4~~
* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNCIAN: Karen Dam

DATE: 8/18/04

START TIME: 1300

FINISH TIME: 1320

BAROMETRIC (before): 28.92

BAROMETRIC (after): 28.90

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE (inW.C)	LFG % CH4
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.2	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inW.C)	LFG % CH4
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (inW.C)	LFG % CH4
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM-500 CALIBRATED TO 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~300~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

DATE: 8/19/04

START TIME: 12:53
FINISH TIME: 13:16

BAROMETRIC (before): 28.94
BAROMETRIC (after): 28.97

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (inW.C.)	LFG % (CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inW.C.)	LFG % (CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (inW.C.)	LFG % (CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 15.0 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

DATE: 8/20/04

START TIME: 13:30
FINISH TIME: 15:15

BAROMETRIC (before): 28.94
BAROMETRIC (after): 28.97

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE ID	STATIC PRESSURE (inW.C.)	TOC (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M	+0.0	0.0
W-14D		

PROBE ID	STATIC PRESSURE (inW.C.)	TOC (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE ID	STATIC PRESSURE (inW.C.)	TOC (%CH4)
E-1	+0.2	00
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.1	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.0	0.0

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM ~~500~~ CALIBRATED TO 15.0% ~~2.5~~% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

MONTHLY PROBE READING

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec GEM ~~500~~ 2000 (Serial No. 07252)

TECHNCIAN: RAUL BONGATO

BAROMETRIC (before): 28.96 / 28.93
BAROMETRIC (after): 29.01 / 28.92

DATE: 8/17/04
START TIME: 14:31
FINISH TIME: 15:45

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
W-1S	+0.2	0.0
W-1M	+0.3	0.0
W-1D	+0.3	0.0
W-2A	+0.3	0.0
W2B	+0.2	0.0
W-3S	+0.2	0.0
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4	+0.2	0.0
W-5S	+0.2	0.0
W-5M	+0.1	0.0
W-5D	-0.1	0.0
W-6	+0.3	0.0
W-7S	+0.2	0.0
W-7M	-0.2	0.0
W-7D	-0.2	0.0
W-8	+0.3	0.0
W-9A	+0.3	0.0
W-9B	+0.2	0.0
W-10S	+0.3	0.0
W-10M	-0.1	0.0
W-10D	+0.0	0.0
W-11	+0.3	0.0
W-12S	+0.3	0.0
W-12M	+0.3	0.0
W-12D	+0.2	0.0
W-13	+0.3	0.0
W-14S	+0.3	0.0
W-14M	+0.3	0.0
W-14D	+0.3	0.0

DATE: 8/19/04
START TIME: 11:12
FINISH TIME: 14:09

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
S-1A		
S-2B		
S-3S	+0.0	0.0
S-3M1	+0.0	0.0
S-3M2	+0.0	0.0
S-3D	+0.0	0.0
S-4	+0.0	0.0
S-5	+0.0	0.0
S-6S	+0.1	0.0
S-6M1	+0.1	0.0
S-6M2	+0.2	0.0
S-6D	+0.1	0.0
S-7	+0.0	0.0
S-8	+0.0	0.0
S-9S-R	+0.0	0.0
S-9M1-R	+0.0	0.0
S-9M2-R	-0.1	0.0
S-9D-R	-0.2	0.0
S-10R	+0.1	0.0
S-11R	+0.1	0.0
S-12	+0.1	0.0

DATE: 8/20/04 → 8/21/04
START TIME: 13:30 / 8:58
FINISH TIME: 15:15 / 9:04

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
E-1	+0.2	0.0
E-2S	+0.1	0.0
E-2M	+0.1	0.0
E-2D	+0.1	0.0
E-3	+0.0	0.0
E-4	+0.1	0.0
E-5S	+0.2	0.0
E-5M	+0.2	0.0
E-5D	+0.1	0.0
E-6	+0.0	0.0
E-7	+0.0	0.0
E-8S	+0.0	0.0
E-8M	+0.1	0.0
E-8D	-0.1	34.5
E-9	+0.1	0.0
E-10	+0.0	0.0
E-11S-R	+0.0	0.0
E-11M-R	+0.0	0.0
E-11D-R	+0.1	0.0
E-12	+0.0	0.0
E-13	-0.2	0.0
E-14S	+0.0	0.0
E-14M	+0.0	0.0
E-14D	+0.0	0.0

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 15.0 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

DATE: 8/23/04

START TIME: 12:57
FINISH TIME: 13:17

BAROMETRIC (before): 28.88
BAROMETRIC (after): 28.92

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5%~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07189027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

BAROMETRIC (before): 28.95

TECHNICIAN: RAUL BONGATO

BAROMETRIC (after): 28.97

DATE: 8/25/04

START TIME: 13.11

FINISH TIME: 13.31

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM 500~~ 2000 CALIBRATED TO ~~2.5%~~ 65.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.86

BAROMETRIC (after): 28.90

DATE: 8/26/04

START TIME: 1315

FINISH TIME: 1410

DATE: 8/26/04

START TIME: 1315

FINISH TIME: 1410

DATE: 8/26/04

START TIME: 1315

FINISH TIME: 1410

PROBE ID	STATIC PRESSURE (in W.C.)	LFG % CH4
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S *		
W-3M	-0.2	0.0
W-3D *	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.1	14.1
W-6		
W-7S		
W-7M		
W-7D	+0.0	24.4
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	-0.3	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C.)	LFG % CH4
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE ID	STATIC PRESSURE (in W.C.)	LFG % CH4
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.1	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+0.0	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.1	0.0

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.53%~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

DATE: 8/27/04

START TIME: 13:37
FINISH TIME: 14:27

BAROMETRIC (before): 28.84
BAROMETRIC (after): 28.89

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG % (CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.2	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.2	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG % (CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.1	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG % (CH4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.1	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	-0.1	0.0
E-14D	+0.0	0.0

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO 15.2% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

BAROMETRIC (before): 28.87

BAROMETRIC (after): 28.89

DATE: 8/30/04

START TIME: 13:17

FINISH TIME: 13:41

PROBE I.D.	STATIC PRESSURE (inWC)	LFG CH4 (%)
W-1S		
W-1M		
W-1D		
W-2A	-0.2	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	34.7
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.2	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

DATE:

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (inWC)	LFG CH4 (%)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

DATE:

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (inWC)	LFG CH4 (%)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 15.0 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

DATE: 8/31/04

START TIME: 12:56

FINISH TIME: 13:59

BAROMETRIC (before): 28.92

BAROMETRIC (after): 28.96

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (inch WC)	LFG % CH4
W-1S		
W-1M		
W-1D		
W-2A	-0.2	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	-0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.0	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inch WC)	LFG % CH4
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.1	0.0

PROBE ID	STATIC PRESSURE (inch WC)	LFG % CH4
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.2	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	-0.2	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07189027.00

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

LABORATORY ANALYSIS REPORT

environmental consultants
laboratory services

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: September 7, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: August 24, 2004
Date Analyzed: August 24, 2004

	AtmAA Lab No.:	02374-1
	Sample I.D.:	Probe E8D BL-010
Components		(Concentration in %,v)
Nitrogen		57.8
Oxygen		13.1
Methane		15.6
Carbon dioxide		11.9
		(Concentration in ppmv)
TGNMO		642
Hydrogen sulfide		<0.5
		(Concentration in ppbv)
Benzene		<20
Benzylchloride		<40
Chlorobenzene		<30
Dichlorobenzenes*		<30
1,1-dichloroethane		<30
1,2-dichloroethane		<20
1,1-dichloroethylene		<30
Dichloromethane		<30
1,2-dibromoethane		<30
Perchloroethylene		<20
Carbon tetrachloride		<30
Toluene		<20
1,1,1-trichloroethane		<20
Trichloroethene		<20
Chloroform		<20
Vinyl chloride		750
m+p-xylenes		<30
o-xylene		<20

The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.
The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: August 24, 2004
Date Analyzed: August 24, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in %,v)			
Nitrogen	Probe E8D	57.7	57.8	57.8	0.086
Oxygen	Probe E8D	13.1	13.1	13.1	0.0
Methane	Probe E8D	15.5	15.6	15.6	0.32
Carbon dioxide	Probe E8D	11.9	11.9	11.9	0.0
		(Concentration in ppmv)			
TGNMO	Probe E8D	662	622	642	3.1
Hydrogen sulfide	Probe E8D	<0.5	<0.5	---	---
		(Concentration in ppbv)			
Benzene	Probe E8D	<20	<20	---	---
Benzylchloride	Probe E8D	<40	<40	---	---
Chlorobenzene	Probe E8D	<30	<30	---	---
Dichlorobenzenes	Probe E8D	<30	<30	---	---
1,1-dichloroethane	Probe E8D	<30	<30	---	---
1,2-dichloroethane	Probe E8D	<20	<20	---	---
1,1-dichloroethylene	Probe E8D	<30	<30	---	---
Dichloromethane	Probe E8D	<30	<30	---	---
1,2-dibromoethane	Probe E8D	<30	<30	---	---
Perchloroethylene	Probe E8D	<20	<20	---	---
Carbon tetrachloride	Probe E8D	<30	<30	---	---
Toluene	Probe E8D	<20	<20	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
1,1,1-trichloroethane	Probe E8D	<20	<20	---	---
Trichloroethene	Probe E8D	<20	<20	---	---
Chloroform	Probe E8D	<20	<20	---	---
Vinyl chloride	Probe E8D	758	743	750	1.0
m+p-xylenes	Probe E8D	<30	<30	---	---
o-xylene	Probe E8D	<20	<20	---	---

One Tedlar bag sample, laboratory number 02374-1, was analyzed for SCAQMD Rule 1150.1 components, permanent gases, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 6 repeat measurements from the one Tedlar bag sample is 0.75%.

CHAIN OF CUSTODY

Ref. Document # _____

Page 1 of 1

Shaw Environmental and Infrastructure Inc.

Company Name: Shaw Environmental & Infra., Inc.
Address: 9081 Tujunga Avenue
City / State / Zip: Sun Valley, CA 91352
Manager: Darrell Thompson
Phone/Fax Number: 818-767-0444
Send Report To: Tom Sandhu
Address: 9081Tujunga Avenue
City: Sun Valley, CA 91352
Project Contact: Tom Sandhu
Phone/Fax Number: (818) 822-5273

Project Number: 108341.01
Project Name: Bradley Landfill
Project Location: Sun Valley, California
Purchase Order #:
Lab Destination: AtmAA, Inc.
Lab Contact: Micheal
Lab Phone #: (818) 223-3277

Program: Navy / AFCEE / DOT / [X] USACE / NPDES / RCRA / Other

02374-1

Shaw Sample Number	Sample Identification	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice	Requesting Testing Program: Total BTU's	TOC Method 25	TAC Rule 1150.1	TRS / 307.91	Table 1 Core Group	Fixed Gases (CO_2, O_2, N_2)					MS/MSD = M, Field Duplicate = D
BL-010	Probe E8D	08/24/04	8:56	G	A	1								x	x		x	x					

Special Instructions:

Sampler(s) Name(s):

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
James Gill	8/24/04	1010	Bruce	8/24/04	10:10

Turnaround Time: Normal / Rush

Method Codes
C = Composite
G = Grab
LF - Low Flow

Matrix Codes
DW = Drinking Water
GW = Ground Water
WW = Waste Water
SW = Surface Water
LIQ = Other Liquid
SOL = Other Solid
SO =Soil
SL = Sludge
CP = Chip Samples
WP = Wipe Samples
A = Air Sample

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252

TECHNCIAN: RAUL BONGATO

DATE: 9/1/04

START TIME: 13:01
FINISH TIME: 13:23

BAROMETRIC (before): 28.87
BAROMETRIC (after): 28.96

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE ID	STATIC PRESSURE (inW.C.)	LFG % CH4
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inW.C.)	LFG % CH4
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (inW.C.)	LFG % CH4
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5%~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No 07252)

TECHNCIAN: RAUL BONGATO

DATE: 9/2/04

START TIME: 13:23
FINISH TIME: 13:45

BAROMETRIC (before): 28.74
BAROMETRIC (after): 28.77

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE ID	STATIC PRESSURE (inWC)	LFG (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S *		
W-3M	+0.0	0.0
W-3D	+0.3	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.4	18.7
W-6		
W-7S		
W-7M		
W-7D	+0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.3	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inWC)	LFG (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (inWC)	LFG (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 15.0 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

BAROMETRIC (before): 28.72
BAROMETRIC (after): 28.73

TECHNCIAN: RAUL BONGATO

DATE: 9/3/04

START TIME: 1300
FINISH TIME: 1400

DATE: 9-3-04

START TIME: 1300
FINISH TIME: 1400

DATE: 9-3-04

START TIME: 1300
FINISH TIME: 1400

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG % CH4
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.0	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG % CH4
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE I.D.	STATIC PRESSURE (in W.C.)	LFG % CH4
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.02	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 15.0
GEM-~~500~~ CALIBRATED TO ~~2.5~~% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

BAROMETRIC (before): 28.76
BAROMETRIC (after): 28.80

TECHNCIAN: RAUL BONGATO

DATE: 9/7/04

START TIME: 14:26
FINISH TIME: 14:46

PROBE I.D.	STATIC PRESSURE (inWC)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	9.2
W-6		
W-7S		
W-7M		
W-7D	+0.0	20.9
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

DATE: _____

START TIME: _____
FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (inWC)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

DATE: _____

START TIME: _____
FINISH TIME: _____

PROBE I.D.	STATIC PRESSURE (inWC)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM ~~500~~ CALIBRATED TO ~~2.5~~ 1.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No.)

TECHNICIAN: Reyes Trujo

DATE: 9/8/04

START TIME: 3:55
FINISH TIME: 4:15

BAROMETRIC (before): 28.75
BAROMETRIC (after): 28.77

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE ID	STATIC PRESSURE (inW.C.)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	ND
W2B		
W-3S		
W-3M	+0.0	ND
W-3D	-0.0	ND
W-4		
W-5S		
W-5M		
W-5D	+0.0	ND
W-6		
W-7S		
W-7M		
W-7D	-0.1	ND
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.0	ND
W-10D	+0.0	ND
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inW.C.)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (inW.C.)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.80

BAROMETRIC (after): 28.83

DATE: 9-9-04

START TIME: 1407

FINISH TIME: 1430

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE (in W.C.)	% LFG (CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S *		
W-3M	+0.0	0.0
W-3D *	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in W.C.)	% LFG (CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in W.C.)	% LFG (CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.8% CH_4 (5.0%)

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

BAROMETRIC (before): 28.83

BAROMETRIC (after): 28.88

DATE: 9/10/04

START TIME: 12:50

FINISH TIME: 13:51

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.3	0.0
W2B		
W-3S		
W-3M	-0.0	0.0
W-3D	-0.2	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.2	0.0

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	-0.1	0.0
E-14D	-0.1	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO ~~2.5~~ 10.0 % CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNICIAN: R. Ibarra

BAROMETRIC (before): 28.72

BAROMETRIC (after): 28.74

DATE: 9.13.04

START TIME: 1500

FINISH TIME: 1530

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (in. WC)	LFG % (CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	24.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.1	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in. WC)	LFG % (CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in. WC)	LFG % (CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

BAROMETRIC (before): 28.76
BAROMETRIC (after): 28.77

TECHNCIAN: Ramon Ibarra

DATE: 9/14/04
START TIME: 1330
FINISH TIME: 1355

PROBE ID	STATIC PRESSURE (in WC)	TOC (% [illegible])
W-1S		
W-1M		
W-1D		
W-2A	-0.2	0.0
W2B		
W-3S		
W-3M	-0.3	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.0	0.0
W-10D	-0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

DATE: 9/14/04
START TIME: 1355
FINISH TIME: 1400

PROBE ID	STATIC PRESSURE (in WC)	TOC (% [illegible])
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.0	0.0

DATE: 9/14/04.
START TIME: 1415
FINISH TIME: 1430

PROBE ID	STATIC PRESSURE (in WC)	TOC (% [illegible])
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	-0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.1	0.0
E-14D	+0.2	0.0

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO ~~25%~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNICIAN: RAbara

DATE: 9/15/04

START TIME: 1310

FINISH TIME: 1350

BAROMETRIC (before): 28.84

BAROMETRIC (after): 28.83

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE (inWC)	% LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	0.0	0.0
W2B		
W-3S		
W-3M	0.0	0.0
W-3D	0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	0.0	0.0
W-10D	0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inWC)	% LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (inWC)	% LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.45

BAROMETRIC (after): 28.86

DATE: 9-16-04

START TIME: 1320

FINISH TIME: 1400

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE I.D.	STATIC PRESSURE (inWC)	LFG CONC. (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	0.0	0.0
W2B		
W-3S		
W-3M	0.0	0.0
W-3D	0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.3	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inWC)	LFG CONC. (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE I.D.	STATIC PRESSURE (inWC)	LFG CONC. (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.85

BAROMETRIC (after): 28.84

DATE: 9/17/04

START TIME: 1320

FINISH TIME: 1410

DATE: 9-17-04

START TIME: 1320

FINISH TIME: 1410

DATE: 9.17-04

START TIME: 1320

FINISH TIME: 1410

PROBE I.D.	STATIC PRESSURE (inch WC)	% CH4
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.4	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.3	0.0
W-6		
W-7S		
W-7M		
W-7D	0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	0.2	0.0
W-10D	0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	0.0	0.0
W-14M		
W-14D		

PROBE I.D.	STATIC PRESSURE (inch WC)	% CH4
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.1	0.0

PROBE I.D.	STATIC PRESSURE (inch WC)	% CH4
E-1	0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R	0.0	0.0
E-11M-R	0.0	0.0
E-11D-R	-0.2	0.0
E-12		
E-13		
E-14S		
E-14M	0.0	0.0
E-14D	0.0	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 1.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

DATE: 9/20/04

START TIME: 13:26
FINISH TIME: 13:45

BAROMETRIC (before): 28.91
BAROMETRIC (after): 28.92

DATE:

START TIME:
FINISH TIME:

DATE:

START TIME:
FINISH TIME:

PROBE ID	STATIC PRESSURE (in WC)	LFG % (CH4)
W-1S		
W-1M		
W-1D		
W-2A	+0.1	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.2	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.2	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (in WC)	LFG % (CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (in WC)	LFG % (CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-~~500~~ 2000 CALIBRATED TO 2.5% CH_4 15.0 %

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

BAROMETRIC (before): 28.99
BAROMETRIC (after): 28.99

TECHNICIAN: RAUL BONGATO

DATE: 9/21/04 | DATE: | DATE:

START TIME: 13:18
FINISH TIME: 14:13

START TIME: | FINISH TIME:

START TIME: | FINISH TIME:

PROBE ID	STATIC PRESSURE (inWC)	LFG (%)
W-1S		
W-1M		
W-1D		
W-2A	+0.0	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.2	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.0	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inWC)	LFG (%)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.1	0.0

PROBE ID	STATIC PRESSURE (inWC)	LFG (%)
E-1	+0.2	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.2	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.2	0.0
E-14D	+0.2	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

TECHNCIAN: RAMON IBARRA

BAROMETRIC (before): 29.00
BAROMETRIC (after): 28.94

DATE: 9.21.04

START TIME: 1320
FINISH TIME: 1340

DATE: _____

START TIME: _____
FINISH TIME: _____

DATE: _____

START TIME: _____
FINISH TIME: _____

PROBE ID	STATIC PRESSURE (inch WC)	LFG (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	~~-0.10~~	0.0
W2B	~~0.0~~	
W-3S		
W-3M	0.2	0.0
W-3D	0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	0.0	0.0
W-10D	0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inch WC)	LFG (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (inch WC)	LFG (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: ~~GEM-500~~ 2000 CALIBRATED TO ~~2.5%~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.91

BAROMETRIC (after): 2892

DATE: 9-23-04

START TIME: 1310

FINISH TIME: 1330

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESSURE (inch WC)	LFG CONC. (% CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.3	0.0
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.3	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.1	0.0
W-10D	-0.2	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inch WC)	LFG CONC. (% CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (inch WC)	LFG CONC. (% CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM 2000 CALIBRATED TO 15.0% CH_4

Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

TECHNICIAN: RAUL BONGATO

BAROMETRIC (before): 28.90

BAROMETRIC (after): 28.95

DATE: 9/24/04

START TIME: 13:15

FINISH TIME: 14:11

DATE: _____

START TIME: _____

FINISH TIME: _____

DATE: _____

START TIME: _____

FINISH TIME: _____

PROBE ID	STATIC PRESS (in. W.C.)	% CH4
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	+0.0	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	+0.0	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESS (in. W.C.)	% CH4
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	+0.0	0.0

PROBE ID	STATIC PRESS (in. W.C.)	% CH4
E-1	+0.0	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	+0.0	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.1	0.0

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 2.5% CH_4 15.0

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: GEM-2000 (Serial No. 7252)

TECHNICIAN: Ramon Ibarra

BAROMETRIC (before): 28.89

BAROMETRIC (after): 28.90

DATE: 9/27/04

START TIME: 1330

FINISH TIME: 1400

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE (inches)	LFG % CH4
W-1S		
W-1M		
W-1D		
W-2A	-0.3	0.0
W2B		
W-3S		
W-3M	0.0	0.0
W-3D	0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inches)	LFG % CH4
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE (inches)	LFG % CH4
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-2000 CALIBRATED TO 15.0% ~~2.5%~~ CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

SEPTEMBER MONTHLY READINGS

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 7252)

TECHNCIAN: Ramon Ibarra

BAROMETRIC (before): 28.84
BAROMETRIC (after): 28.83

DATE: 9-14-04 / 9-15-04

START TIME: 1310 / 1310
FINISH TIME: 1350 / 1430

PROBE ID	STATIC PRESSURE (in.WC)	TOC (% CH4)
W-1S	0.0	0.0
W-1M	0.0	0.0
W-1D	+0.2	0.0
W-2A	0.0	0.0
W2B	0.0	0.0
W-3S *	-0.1	0.0
W-3M	0.0	0.0
W-3D *	0.1	0.0
W-4	0.0	0.0
W-5S	0.0	0.0
W-5M	-0.1	0.0
W-5D	-0.2	0.0
W-6	-0.1	0.0
W-7S	-0.7	0.0
W-7M	-0.8	0.0
W-7D	0.0	0.0
W-8	0.0	0.0
W-9A	0.0	0.0
W-9B	0.0	0.0
W-10S	0.0	0.0
W-10M	0.0	0.0
W-10D	0.0	0.0
W-11	0.0	0.0
W-12S	0.0	0.0
W-12M	0.1	0.0
W-12D	0.0	0.0
W-13	0.0	0.0
W-14S	-0.2	0.0
W-14M	0.0	0.0
W-14D	0.1	0.0

DATE: 9-16-04

START TIME: 1410 (B) 28.84
FINISH TIME: 1450 (A) 28.85

PROBE ID	STATIC PRESSURE (in.WC)	TOC (% CH4)
S-1A	n/a	n/a
S-2B	n/a	n/a
S-3S	0.0	0.0
S-3M1	-0.1	0.0
S-3M2	0.0	0.0
S-3D	0.0	0.0
S-4	0.0	0.0
S-5	0.0	0.0
S-6S	0.0	0.0
S-6M1	0.0	0.0
S-6M2	0.0	0.0
S-6D	0.0	0.0
S-7	0.0	0.0
S-8	0.0	0.0
S-9S-R	0.0	0.0
S-9M1-R	0.1	0.0
S-9M2-R	0.1	0.0
S-9D-R	0.1	0.0
S-10R	0.0	0.0
S-11R	0.0	0.0
S-12	0.0	0.0

DATE: 9/20/04. Bar 29.05

START TIME: 8:51 Bar 28.99
FINISH TIME: 10:32

PROBE ID	STATIC PRESSURE (in.WC)	TOC (% CH4)
E-1	0.0	0.0
E-2S	0.1	0.0
E-2M	0.1	0.0
E-2D	0.1	0.0
E-3	0.0	0.0
E-4	0.0	0.0
E-5S	0.1	0.0
E-5M	0.1	0.0
E-5D	-0.1	0.0
E-6	0.1	0.0
E-7	0.1	0.0
E-8S	0.0	0.0
E-8M	-0.1	0.0
E-8D	-2.2	20.9
E-9	0.0	0.0
E-10	0.0	0.0
E-11S-R	0.0	0.0
E-11M-R	0.0	0.0
E-11D-R	0.0	0.0
E-12	-0.1	0.0
E-13	-0.2	0.0
E-14S	0.0	0.0
E-14M	-0.2	0.0
E-14D	0.0	0.0

Monitoring Protocol:

Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5%~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ 2000 (Serial No. 07252)

BAROMETRIC (before): 28.92

BAROMETRIC (after): 28.91

TECHNICIAN: RAUL BONGATO

DATE: 9/28/04 DATE: DATE:

START TIME: 13:20 START TIME: START TIME:

FINISH TIME: 14:39 FINISH TIME: FINISH TIME:

PROBE ID	STATIC PRESSURE (inch WC)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

PROBE ID	STATIC PRESSURE (inch WC)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.1	0.0

PROBE ID	STATIC PRESSURE (inch WC)	LFG (%CH4)
E-1	-0.1	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.0	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 15.0 % 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07189027.00

LEA - Inspection by Marty

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem 500 (Serial No. —)

TECHNICIAN: (LEA) Marty / Ramon Ibarra (Shaw)

DATE: 9/28/04

START TIME: 1410

FINISH TIME: 1500

BAROMETRIC (before): 28.95

BAROMETRIC (after): 28.96

DATE: 9/28/04

START TIME: 1410

FINISH TIME: 1500

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
W-1S		
W-1M		
W-1D		
W-2A		
W2B		
W-3S	N/A	0.0
W-3M	N/A	0.0
W-3D	N/A	0.0
W-4		
W-5S	N/A	0.0
W-5M	↓	0.0
W-5D	↓	0.0
W-6		
W-7S	N/A	0.0
W-7M	↓	0.0
W-7D	↓	0.0
W-8		
W-9A		
W-9B		
W-10S	N/A	0.0
W-10M	↓	0.0
W-10D	↓	0.0
W-11		
W-12S	N/A	0.0
W-12M		
W-12D		
W-13		
W-14S	N/A	0.0
W-14M	↓	0.0
W-14D	↓	0.0

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
* S-9S-R	N/A	1.8
S-9M1-R	↓	0.0
S-9M2-R	↓	0.0
S-9D-R	↓	0.0
S-10R		
S-11R		
S-12	N/A	0.0

PROBE ID	STATIC PRESSURE (inWC)	LFG (%CH4)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM-500 CALIBRATED TO 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec GEM ~~500~~ 2000 (Serial No. 07252)

BAROMETRIC (before): 28.92

BAROMETRIC (after): 28.91

TECHNICIAN: RAUL BONGATO

DATE: 9/28/04 DATE: _____ DATE: _____

START TIME: 13:20 START TIME: _____ START TIME: _____

FINISH TIME: 14:39 FINISH TIME: _____ FINISH TIME: _____

PROBE ID	CH4 (%)	CO2 (%)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	-0.2	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.1	0.0
W-10D	+0.0	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S	-0.1	0.0
W-14M		
W-14D		

PROBE ID	CH4 (%)	CO2 (%)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12	-0.1	0.0

PROBE ID	CH4 (%)	CO2 (%)
E-1	-0.1	0.0
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M	+0.0	0.0
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R	-0.1	0.0
E-12		
E-13		
E-14S		
E-14M	+0.0	0.0
E-14D	+0.0	0.0

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO 15.0 % 2.5% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07198027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~[illegible]~~ 2000 (Serial No. 07252)

BAROMETRIC (before): 28.86

BAROMETRIC (after): 28.86

TECHNICIAN: RAUL BONGATO

DATE: 9/29/04

START TIME: 13:31

FINISH TIME: 13:58

DATE:

START TIME:

FINISH TIME:

DATE:

START TIME:

FINISH TIME:

PROBE ID	STATIC PRESSURE [illegible]	[illegible]
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.1	0.0
W-3D	+0.0	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.1	0.0
W-6		
W-7S		
W-7M		
W-7D	+0.0	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	+0.0	0.0
W-10D	-0.1	17.9
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	[illegible]	[illegible]
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	STATIC PRESSURE [illegible]	[illegible]
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: GEM ~~500~~ 2000 CALIBRATED TO ~~2.5%~~ 15.0% CH_4

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

BRADLEY LANDFILL GAS PROBE READING

EQUIPMENT USED: Landtec Gem ~~500~~ (Serial No. 07252)

BAROMETRIC (before): 28.86
BAROMETRIC (after): 28.86

TECHNICIAN: RAUL BONGATO

DATE: 9/30/04 DATE: _____ DATE: _____

START TIME: 13:24 START TIME: _____ START TIME: _____
FINISH TIME: 13:45 FINISH TIME: _____ FINISH TIME: _____

PROBE ID	METHANE (%)	CO2 (%)
W-1S		
W-1M		
W-1D		
W-2A	-0.1	0.0
W2B		
W-3S		
W-3M	-0.2	0.0
W-3D	-0.1	0.0
W-4		
W-5S		
W-5M		
W-5D	+0.0	0.0
W-6		
W-7S		
W-7M		
W-7D	-0.1	0.0
W-8		
W-9A		
W-9B		
W-10S		
W-10M	-0.2	0.0
W-10D	-0.1	0.0
W-11		
W-12S		
W-12M		
W-12D		
W-13		
W-14S		
W-14M		
W-14D		

PROBE ID	METHANE (%)	CO2 (%)
S-1A		
S-2B		
S-3S		
S-3M1		
S-3M2		
S-3D		
S-4		
S-5		
S-6S		
S-6M1		
S-6M2		
S-6D		
S-7		
S-8		
S-9S-R		
S-9M1-R		
S-9M2-R		
S-9D-R		
S-10R		
S-11R		
S-12		

PROBE ID	METHANE (%)	CO2 (%)
E-1		
E-2S		
E-2M		
E-2D		
E-3		
E-4		
E-5S		
E-5M		
E-5D		
E-6		
E-7		
E-8S		
E-8M		
E-8D		
E-9		
E-10		
E-11S-R		
E-11M-R		
E-11D-R		
E-12		
E-13		
E-14S		
E-14M		
E-14D		

Monitoring Protocol: Probe monitoring is conducted in accordance with SCAQMD Rule 1150.1, Attachment A, Section 1.3.1. Prior to sampling each probe is evacuated until the Total Organic Compound concentration remains constant for 30 seconds.

Comments: 2000 GEM ~~500~~ CALIBRATED TO 2.5% CH_4 50%

* Submitted for laboratory analyses.

Revised 8/16/02

Project No. 07199027.00

AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Probe Tedlar Bag Sample

Report Date: October 8, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: September 27, 2004
Date Analyzed: September 27 & 28, 2004

AtmAA Lab No.:	02714-7
Sample I.D.:	Probe E8D BL-010
Components	*(Concentration in %,v)*
Nitrogen	31.8
Oxygen	5.40
Methane	36.4
Carbon dioxide	24.3
	(Concentration in ppmv)
TGNMO	1290
Hydrogen sulfide	<0.5
	(Concentration in ppbv)
Benzene	609
Benzylchloride	<40
Chlorobenzene	<30
Dichlorobenzenes*	110
1,1-dichloroethane	36.1
1,2-dichloroethane	<20
1,1-dichloroethylene	<30
Dichloromethane	37.8
1,2-dibromoethane	<30
Perchloroethylene	157
Carbon tetrachloride	<30
Toluene	2430
1,1,1-trichloroethane	<20
Trichloroethene	98.4
Chloroform	<20
Vinyl chloride	1360
m+p-xylenes	726
o-xylene	258

The accuracy of permanent gas analysis by TCD/GC is +/- 2%, actual results are reported.
The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: September 27, 2004
Date Analyzed: September 27 & 28, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in %,v)			
Nitrogen	Probe E8D	31.6	31.9	31.8	0.47
Oxygen	Probe E8D	5.38	5.42	5.40	0.37
Methane	Probe E8D	36.5	36.4	36.4	0.14
Carbon dioxide	Probe E8D	24.4	24.2	24.3	0.41
		(Concentration in ppmv)			
TGNMO	No Repeat				
Hydrogen sulfide	Probe E8D	<0.5	<0.5	—	—
		(Concentration in ppbv)			
Benzene	Probe E8D	615	603	609	0.98
Benzylchloride	Probe E8D	<40	<40	---	—
Chlorobenzene	Probe E8D	<30	<30	---	—
Dichlorobenzenes	Probe E8D	116	103	110	5.9
1,1-dichloroethane	Probe E8D	35.8	36.4	36.1	0.83
1,2-dichloroethane	Probe E8D	<20	<20	---	---
1,1-dichloroethylene	Probe E8D	<30	<30	---	---
Dichloromethane	Probe E8D	37.8	37.7	37.8	0.13
1,2-dibromoethane	Probe E8D	<30	<30	---	---
Perchloroethylene	Probe E8D	154	160	157	1.9
Carbon tetrachloride	Probe E8D	<30	<30	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Toluene	Probe E8D	2430	2430	2430	0.0
1,1,1-trichloroethane	Probe E8D	<20	<20	---	---
Trichloroethene	Probe E8D	93.9	103	98.4	4.6
Chloroform	Probe E8D	<20	<20	---	---
Vinyl chloride	Probe E8D	1400	1330	1360	2.6
m+p-xylenes	Probe E8D	727	724	726	0.21
o-xylene	Probe E8D	254	262	258	1.6

One Tedlar bag sample, laboratory number 02714-7, was analyzed for SCAQMD Rule 1150.1 components, permanent gases, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 14 repeat measurements from the one Tedlar bag sample is 1.4%.

TEDLAR BAG PURGING/INSPECTION/FIELD DATA SHEET

Site: BLRC **Date:** 9.27.04

Start Time: 1050 **Completion Time:** ~~1050~~ 1108

Technician: Ramon Ibarra **Bag ID No.:** 024312-0155

Visual Condition of Bag: New

Bag Leak Test: Pass ☑ Fail ☐

Bag Filled and Emptied Three Times with N_2: Yes ☑ No ☐

Bag Valve Shut Off: Yes ☑ No ☐

Bag Stored and Checklist Completed: Yes ☑ No ☐

Field Information

Personnel: Ramon Ibarra

Sample Location: Probe E80 **Sample No.:** BL-010

Sample Type: Ambient Air ISS LFG (Probes) Head Space

Program start date: 9.27.04 Time: 1050

Program stop date: 9.27.04 Time: 1108

Program timer setting: — Actual time: —

Rotometer setting: Start — Stop —

Field readings: ~~n/a~~ 40.1% Methane

n/a Other (specify) n/a

Observations:

APPENDIX C

INTEGRATED SURFACE EMISSION MONITORING

- Field Sheets
- Laboratory Analysis
- Sample Chain-of-Custody
- Integrated Sampling QA/QC Forms
- Instrumentation Calibration

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Tim Lnylch, Mike Ceorgi, Johnny Espinoza, Tom Shelic

Date: 7/[illegible]/04 Instrument Used: @ISS-1-5

Temperature: 75°

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
1	CM	0700	0725	5	.333		
2	MG	0700	0725	5	↓		
3	TS	0700	0725	5			
4	TL	0700	0725	5			
5	JE	0700	0725	5			
32	CM	0730	0755	5			
33	MG	0730	0755	5			
41	TS	0730	0755	5			
42	TL	0730	0755	8			
56	JE	0730	0755	8			
69	CM	0800	0825	5			
75	MG	0800	0825	5			
111	TS	0800	0825	6			
129	TL	0800	0825	5			
43	JE	0800	0825	6			
50	CM	0830	0855	5			
6	MG	0830	0855	5			
7	TS	0830	0855	8			
8	TL	0830	0855	7			
9	JE	0830	0855	5			
10	CM	0900	0925	5			
31	MG	0900	0925	8			
63	TS	0900	0925	8			
74	TL	0900	0925	5			
24	JE	0900	0925	5			
40	CM	0930	0955	5			
34	MG	0930	0955	5			
35	TS	0930	0955	5			
36	TL	0930	0955	5			
38	JE	0930	0955	5	↓		

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Tim Lynch, Mike Cooper, Johnny Esparza, Tom Stelvin

Date: 7/21/04 Instrument Used: ISS 1-5

Temperature:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
44	CM	1000	1025	5	.333		
20	MC	1000	1025	5	↓		
21	TS	1000	1025	5			
22	TL	1000	1025	8			
23	JE	1000	1025	5			
37	CM	1030	1055	5			
39	MC	1030	1055	5			
45	TS	1030	1055	6			
128	TL	1030	1055	6			
130	JE	1030	1055	5			
100	CM	1100	1125	6			
92	MC	1100	1125	5			
91	TS	1100	1125	8			

Attach Calibration Sheet
Attach site map showing grid ID

RES

ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley Landfill

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
CM	7/26/24	OK	15	—	—	—	—		50	50	—		—		50	50	—		—	50	—

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Craig Markley

Date: 7/29/04 Instrument Used:

Temperature:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
47							Active, Dumping Trash.
49							
46							
48							
51							
54							

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tom Sheulin, Craig Markley, John Esplooza, Mike Gorgei, Tim Lynch

Date: 7/21/04 Instrument Used: OVA 128/ ISS Packs

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
132	PP	0730	0755	8	.333		
131	CM	0730	0755	5	↓		
127	MG	0730	0755	5			
126	TS	0730	0755	5			
125	JE	0730	0755	7			
124	TL	0730	0755	5			
123	PP	0800	0825	6			
118	CM	0800	0825	5			
119	MG	0800	0825	5			
120	TS	0800	0825	5			
121	JE	0800	0825	7			
122	TL	0800	0825	5			
117	PP	0830	0855	6			
115	CM	0830	0855	5			
110	MG	0830	0855	5			
106	TS	0830	0855	6			
103	JE	0830	0855	6			
99	TL	0830	0855	5			
96	PP	0900	0925	5			
90	CM	0900	0925	6			
85	MG	0900	0925	5			
84	TS	0900	0925	5			
81	JE	0900	0925	5			
73	TL	0900	0925	5			
66	PP	0930	0955	6			
59	CM	0930	0955	5			
61	MG	0930	0955	5			
60	TS	0930	0955	5			
55	JE	0930	0955	5			
52	TL	0930	0955	6	↓		

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tom Shoulin, Craig Markley, John Espinoza, Mike Gorgei, Tim Lynch

Date: 7/21/04 Instrument Used: OVA 128 / ISS Packs

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
58	PP	1000	1025	5	.333		
65	CM	1000	1025	6			
68	MG	1000	1025	5			
72	TS	1000	1025	5			
80	JE	1000	1025	5			
83	TL	1000	1025	5			
87	PP	1030	1055	6			
89	CM	1030	1055	5			
95	MG	1030	1055	6			
98	TS	1030	1055	6			
102	JE	1030	1055	7			
105	TL	1030	1055	4			
109	PP	1200	1225	5			
114	CM	1200	1225	5			
116	MG	1200	1225	5			
113	TS	1200	1225	6			
108	JE	1200	1225	5			
104	TL	1200	1225	5			
101	PP	1230	1255	5			
97	CM	1230	1255	5			
94	MG	1230	1255	6			
88	TS	1230	1255	5			
86	JE	1230	1255	5			
82	TL	1230	1255	6			
79	PP	1300	1325	6			
71	CM	1300	1325	5			
67	MG	1300	1325	5			
64	TS	1300	1325	7			
57	JE	1300	1325	4			
53	TL	1300	1325	5	↓		

Attach Calibration Sheet

Attach site map showing grid ID

BRADLEY LANDFILL

INTEGRATED LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tom Stehlin, Craig Markley, John Espinoza, Mike Gorgol, Jim Lynch

Date: 7/21/04 Instrument Used: OVA 128 / ISS Packs

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	ROTO-MTR, CC/MIN	WIND SPEED, MPH/DIRECT	REMARKS
70	PP	1330	1355	5	.333		
77	CM	1330	1355	5	↓		
76	MC	1330	1355	5			
78	TS	1330	1355	5			
93	JE	1330	1355	6			
107	TL	1330	1355	5			

Attach Calibration Sheet
Attach site map showing grid ID

ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley (ESS)

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
PP	7/3/24	OK	1.5	—			—		50	50	—		—		50	50	—	—	—	50	—

APPENDIX D

INSTANTANEOUS SURFACE EMISSION MONITORING

- Field Sheets
- Instrumentation Calibration

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, TIM Lynch
Craig Markley
John Espinoza

Date: 7/15/04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
128	PP	0900	0915	5	
129	CM	0900	0915	5	
130	JE	0900	0915	5	
100	TL	0900	0915	5	
92	PP	0915	0930	5	
91	CM	0915	0930	5	
74	JE	0915	0930	5	
63	TL	0915	0930	5	
31	PP	0930	0945	5	
10	CM	0930	0945	5	
9	JE	0930	0945	5	
8	TL	0930	0945	5	
7	PP	0945	1000	5	
5	CM	0945	1000	5	
6	JE	0945	1000	5	
4	TL	0945	1000	5	
3	PP	1000	1015	5	
29	CM	1000	1015	5	
21	JE	1000	1015	5	
22	TL	1000	1015	500	crack S of 62
24	PP	1015	1030	5	
23	CM	1015	1030	5	
37	JE	1015	1030	5000	Area N of EW 36, EW 36
39	TL	1015	1030	100,000	Area S of 102, Area S of EW 36
45	PP	1030	1045	5	
40	CM	1030	1045	5	
47	JE	1030	1045	5	
49	TL	1030	1045	5	
52	PP	1045	1100	5	
55	CM	1045	1100	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Tim Lynch, Craig Markley, John Espinoza

Date: 7/15/04 Instrument Used: ONA 88/128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
60	JE	1045	1100	500	Sump A
61	TL	1045	1100	5	
59	PP	1200	1215	5	
66	CM	1200	1215	5	
68	JE	1200	1215	2,000	EW 51
65	TL	1200	1215	5	
58	PP	1215	1230	5	
54	CM	1215	1230	5	
51	JE	1215	1230	5	
48	TL	1215	1230	5	
46	PP	1230	1245	5	
2	CM	1230	1245	5	
1	JE	1230	1245	5	
32	TL	1230	1245	5	
33	PP	1245	1300	5	
41	CM	1245	1300	5	
42	JE	1245	1300	5	
43	TL	1245	1300	5	
50	PP	1300	1315	5	
53	CM	1300	1315	5	
57	JE	1300	1315	5	
64	TL	1300	1315	5	
67	PP	1315	1330	5	
71	CM	1315	1330	2,000	EW 55
79	JE	1315	1330	5	
82	TL	1315	1330	2,000	EW 69
70	CM	1330	1345	5	
56	JE	1330	1345	5	
69	TL	1330	1345	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce

Date: 7/15/04 Instrument Used:

Temperature:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
34					Active Dumping
35					↓
36					
38					
44					

Attach Calibration Sheet
Attach site map showing grid ID

LOG OF REMEDIAL WORK FOR INSTANTANEOUS SURFACE MONITORING

Site Name: Bradley Monitoring Period: 7-15/7-21/04 Personnel: Paul Ponce

	INITIAL MONITORING		FIRST	SECOND MONITORING		SECOND	THIRD MONITORING	
Grid No.	Date	Toc	Remedial Work	Date	Toc	Remedial Work	Date	Toc
22	7/15/04	500	dirt, track walk	7/21/04	20			
37	7/15/04	5000	dirt, track walk	7/21/04	30			
39	7/15/04	100,000	dirt, track walk	7/21/04	30			
60	7/15/04	500	water, Weed Barks, Oil Sump	7/21/04	50			
68	7/15/04	2000	—	7/21/04	100			
71	7/15/04	2000	—	7/21/04	250			
82	7/15/04	2000	—	7/21/04	300			

1. Monitoring Date
2. TOC Reading in PPM

Signature: Paul Ponce

ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley (OVA)

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
PP	7/15/04	OK	1.5								500	500					500	500			500
CM	7/15/04	OK	1.5								500	500					500	500			500
JE	7/15/04	OK	1.5								500	500					500	500			500
TL	7/15/04	ok	1.5								500	500					500	500			500

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, Johnny Espinoza
Craig Markley, Tim Lynch
Mike Gorgei, Bill Ross

Date: 8-25-04 Instrument Used: OVA 88/128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
111	PP	0745	0800	100,000	spots NW of SVE 16
107	CM	0745	0800	500	P18
108	MG	0745	0800	5,000	spot next to P19
112	JE	0745	0800	100,000	P20 and spots along bench and asphalt road
113	TL	0745	0800	5	
118	BR	0745	0800	100,000	slope below P36
123	PP	0800	0815	5,000	slope above SVE 14
124	CM	0800	0815	2,000	slope below P24
127	MG	0800	0815	5	
131	JE	0800	0815	100,000	leche Sump
132	TL	0800	0815	5	
126	BR	0800	0815	5	
125	PP	0815	0830	5	
119	CM	0815	0830	5	
120	MG	0815	0830	5	
121	JE	0815	0830	5	
122	TL	0815	0830	5	
117	BR	0815	0830	5	
115	PP	0830	0845	5	
110	CM	0830	0845	5	
106	MG	0830	0845	5	
103	JE	0830	0845	5	
99	TL	0830	0845	5	
96	BR	0830	0845	5	
90	PP	0845	0900	5	
85	CM	0845	0900	5	
84	MG	0845	0900	5	
81	JE	0845	0900	5	
73	TL	0845	0900	5	
66	BR	0845	0900	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, John Espinoza
Craig Markley, Tim Lynch
Mike Gorgei, Bill Ross

WDV 26

Date: 8-25-04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
59	PP	0900	0915	5	
60	CM	0900	0915	5	
61	MG	0900	0915	5	
40	JE	0900	0915	5	
45	TL	0900	0915	5	
39	BR	0900	0915	5	
37	PP	0915	0930	5,000	EW 36 D, spots W of it, spots E of it.
23	CM	0915	0930	1000	spot W of 102
22	MG	0915	0930	5	
24	JE	0915	0930	1000	Spots SE of 62 Spot SE of 70 bottom of slope.
21	TL	0915	0930	5	
20	BR	0915	0930	5	
6	PP	0930	0945	5	
5	CM	0930	0945	5	
4	MG	0930	0945	5	
3	JE	0930	0945	500	spot N of EW 30
2	TL	0930	0945	5	
1	BR	0930	0945	5	
34	PP	0945	1000	5	
35	CM	0945	1000	5	
32	MG	0945	1000	5	
33	JE	0945	1000	5	
36	TL	0945	1000	5	
38	BR	0945	1000	5	
44	PP	1000	1015	5	
43	CM	1000	1015	5	
41	MG	1000	1015	5	
42	JE	1000	1015	5	
80	TL	1000	1015	5	
53	BR	1000	1015	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, John Espinoza, Craig MarKley, Tim Lynch, Mike Gorgei, Bill Ross

WDW 26

Date: 8-25-04 Instrument Used: OVA 88/128

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
56	PP	1015	1026	5	
69	CM	1015	1030	5	
70	MG	1015	1030	5	
57	JE	1015	1030	5	
58	TL	1015	1030	5	
65	BR	1015	1030	5	
68	PP	1030	1045	5	
72	CM	1030	1045	5	
80	MG	1030	1045	5	
83	JE	1030	1045	5	
87	TL	1030	1045	5	
89	BR	1030	1045	5	
95	PP	1045	1100	5	
98	CM	1045	1100	5	
102	MG	1045	1100	5	
105	JE	1045	1100	5	
109	TL	1045	1100	5	
114	BR	1045	1100	5	
166	PP	1100	1115	5	
104	CM	1100	1115	5	
101	MG	1100	1115	5	
97	JE	1100	1115	5	
94	TL	1100	1115	5	
88	BR	1100	1115	5	
86	PP	1115	1130	5	
82	CM	1115	1130	5	
79	MG	1115	1130	5	
71	JE	1115	1130	1000	EW 55 S/R
67	TL	1115	1130	5	
64	BR	1115	1130	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce | John Espinoza | Craig Markley | Tim Lynch | Mike Garges | Bill Ross

Date: 8-~~25~~ 26 04 Instrument Used: OVA 128/88

Temperature: ______

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
77	PP	1200	1215	5	
76	CM	1200	1215	5	
75	MG	1200	1215	5	
78	JE	1200	1215	5	
93	TL	1200	1215	5	
128	BR	1200	1215	5	
129	PP	1215	1230	5	
130	CM	1215	1230	5	
100	MG	1215	1230	5	
92	JE	1215	1230	5	
91	TL	1215	1230	5	
74	BR	1215	1230	5	
63	PP	1230	1245	5	
31	CM	1230	1245	5	
10	MG	1230	1245	5	
9	JE	1230	1245	5	
8	TL	1230	1245	5	
7	BR	1230	1245	5	
19	PP	1245	1300	5	
11	CM	1245	1300	5	
12	MG	1245	1300	5	
13	JE	1245	1300	5	
14	TL	1245	1300	5	
15	BR	1245	1300	5	
16	PP	1300	1315	5	
17	CM	1300	1315	5	
18	MG	1300	1315	5	
30	JE	1300	1315	5	
29	TL	1300	1315	5	
28	BR	1300	1315	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce, John Espinoza, Craig Markley, Tim Lynch, Mike Gorgei, Bill Ross

Date: 8-26-04 Instrument Used: OVA 128/88

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
27	JE	1315	1330	5	
26	TL	1315	1330	5	
25	BR	1315	1330	5	
62	MG	1315	1330	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Paul Ponce

WDV 26

Date: 8-26-04 Instrument Used:

Temperature:

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
SS					Active - Dumping
S7					
49					
47					
46					
48					
51					
S4					

Attach Calibration Sheet
Attach site map showing grid ID

KES

ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley (Jess)

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
RP	8/26/2020	OK	1.5						50	50					50	50				50	

Bradley Landfill

Instantaneous Landfill Surface Monitoring

Technician: RAUL BONGATO

Date: 9/3/04 Instrument Used: CENTURY OVA 128

Temperature: 75°F

Grid ID	Staff Initials	Start Time	Stop Time	TOC PPM	Remarks
131	RB	9:20	9:28	5-7	SOUTH SLOPE
127	RB	9:29	9:40	5-6	SOUTH SLOPE, NORTH OF SUMP P
124	RB	9:40	9:45	5-6	SLOPE NORTHEAST OF SUMP P
123	RB	9:50	9:58	5-6	" " " " "
112	RB	10:05	10:13	20-30	NORTH OF SVE 14
111	RB	10:20	10:40	20-40	" " SVE 16
108	RB	10:43	11:05	5-7	WEST SLOPE
3	RB	11:09	11:14	5-6	NORTHEAST SLOPE
4	RB	11:15	11:18	10-30	NEAR NORTHERN SLOPE
5	RB	11:20	11:25	10-30	" " "
6	RB	11:30	11:34	10-30	" " "
20	RB	11:35	11:40	10-30	" " "
107	RB	11:50	11:55	5-6	SLOPE ON THE WEST SIDE
76	RB	12:02	12:08	5-6	WEST SLOPE
23	RB	1:20	1:27	5	NORTHEAST NEAR ROAD
37	RB	1:40	1:45	5-6	NORTHEAST NEAR ROAD
39	RB	1:47	1:55	5-6	NORTHEAST NEAR ROAD

Attach Calibration Sheet

Attach site map showing grid ID

ORGANIC VAPOR ANALYZER CALIBRATION LOG

Site: BRADLEY LANDFILL

Purpose: OVA SWEEPS AROUND WELLS, SVE'S & SUMPS CASINGS AND SURFACE

Operator: RAUL BONGATO

Date: 9/3/04 Start: 2:15 PM Finish 2:23 PM

Model #: OVA 128

Serial #: 40426

Instrument Integrity Checklist		
Battery test	(Pass) / Fail	
Reading following ignition	5	ppm
Leak test	(Pass) / Fail	
Clean system check (check valve chatter)	(Pass) / Fail	
H2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail	

Instrument Calibration

Perform three-point internal calibration before use.

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy	Ambient (ppm)
100	100	100	5

AUDIT

Time	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
2:15	100	100	100
2:23	100	100	100

Instrument Calibrated to CH4 100 % gas.

Comments:

ORGANIC VAPOR ANALYZER CALIBRATION LOG

Site: BRADLEY LANDFILL

Purpose: OVA SWEEPS AROUND WELLS, SVE'S & SCRAPS' CASINGS AND SURFACE

Operator: RAUL BONGATO

Date: 9/3/04 Start: 8:35 A.M. Finish 8:45 A.M.

Model #: OVA 128

Serial #: 40426

Instrument Integrity Checklist

Battery test	(Pass) / Fail
Reading following ignition	5-6 ppm
Leak test	(Pass) / Fail
Clean system check (check valve chatter)	(Pass) / Fail
H2 supply pressure gauge (acceptable range 9.5 - 12)	(Pass) / Fail

Instrument Calibration

Perform three-point internal calibration before use.

CALIBRATION CHECK

Calibration Gas (ppm)	Actual (ppm)	% Accuracy	Ambient (ppm)
100	100	100	5 PPM

AUDIT

Time	Calibration Gas (ppm)	Actual (ppm)	% Accuracy
8:25	100	100	100
8:45	100	100	100

Instrument Calibrated to CH4 100 % gas.

Comments:

ES

ENVIRONMENTAL INC.

OVA CALIBRATION LOG

Landfill: Bradley Landfill

OPERATOR INITIALS	DATE	BATTERY CHECK	FLOW METER READING	ZONE READING			CH4 CALIBRATION GAS UNCORRECTED READINGS						CH4 CALIBRATION GAS CORRECTED READINGS						3PT. CALIBRATION CHECK		
				10	100	1000	LOW		MED		HIGH		LOW		MED		HIGH				
				PPM	PPM	PPM	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	ACT	PPM	PPM	PPM
CM	9/16/04	OK	1.5								500	500					500	500			500
TL	9/16/04	OK	1.5								500	500					500	500			500
JE	9/16/04	OK	1.5								500	500					500	500			500
EG	9/16/04	OK	1.5								500	500					500	500			500

LOG OF REMEDIAL WORK FOR INSTANTANEOUS SURFACE MONITORING

Site Name: Bradley Monitoring Period: 8/25/04 Personnel: Craig Markley

	INITIAL MONITORING		FIRST	SECOND MONITORING		SECOND	THIRD MONITORING	
Grid No.	Date	Toc	Remedial Work	Date	Toc	Remedial Work	Date	Toc
11	8/25/04	100,000	—	9/3/04	10,000	—	9/13/04	10,000
107	8/25/04	500	—	9/3/04	10			
108	8/25/04	5,000	—	9/3/04	50			
112	8/25/04	100,000	—	9/3/04	50			
118	8/25/04	100,000	—	9/3/04	50			
23	8/25/04	5000	—	9/3/04	50			
124	8/25/04	2,000	—	9/3/04	50			
131	8/25/04	100000	—	9/3/04	100			
37	8/25/04	5,000	—	9/3/04	40			
23	8/25/04	1,000	—	9/3/04	50			
29	8/25/04	1,000	—	9/3/04	10			
3	8/25/04	500	—	9/3/04	10			
71	8/25/04	1000	—	9/3/04	100			
5	8/25/04	500	—	9/3/04	30			

1. Monitoring Date
2. TOC Reading in PPM

Signature: [signature]

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley

Date: _____ Instrument Used: _____

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
33					Active Dumping Trash
37					
39					
45					
47					
36					Active Dumping Dirt / Active Trucks.
38					
44					

Attach Calibration Sheet
Attach site map showing grid ID

LOG OF REMEDIAL WORK FOR INSTANTANEOUS SURFACE MONITORING

Site Name: Bradley Landfill Monitoring Period: 9/16/04 Personnel: Craig Markley

	INITIAL MONITORING		FIRST	SECOND MONITORING		SECOND	THIRD MONITORING	
Grid No.	Date	Toc	Remedial Work	Date	Toc	Remedial Work	Date	Toc
11	9/16/04	20,000						
112	9/16/04	30,000	Turned Wells, Dirt	9/16/04	200			
75	9/16/04	20,000	Turned Wells, Dirt	9/16/04	100			
93	9/16/04	100,000						
107	9/16/04	10,000	Turned Wells Dirt, Water	9/16/04	150			
123	9/16/04	5,000	Turned Wells, Dirt, Water	9/16/04	100			

1. Monitoring Date
2. TOC Reading in PPM

Signature:

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Eduardo Gutierrez, Tim Enyeh, John Espinoza

Date: 9/16/04 Instrument Used: OVA 128/88/108

Temperature: 75°

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
111	CM	0700	0715	20,000	lower Part of slope Next To Road, line of Flags.
112	TL	0700	0715	30,000	lower end mid of slope. line of Flags.
75	JE	0700	0715	20,000	lower Part of slope next To Road, line of Flags
69	EG	0700	0715	5	
76	CM	0715	0730	5	
78	TL	0715	0730	5	
93	JE	0715	0730	100,000	Well 205
107	EG	0715	0730	10,000	Well P15, P17
108	CM	0730	0745	5	
118	TL	0730	0745	5	
123	JE	0730	0745	5,000	Well SVE-14 and slope above Well.
124	EG	0730	0745	5	
125	CM	0745	0800	5	
126	TL	0745	0800	5	
127	JE	0745	0800	5	
131	EG	0745	0800	5	
132	CM	0800	0815	5	
113	TL	0800	0815	5	
101	JE	0800	0815	5	
104	EG	0800	0815	5	
97	CM	0815	0830	5	
94	TL	0815	0830	5	
88	JE	0815	0830	5	
1	EG	0815	0830	5	
2	CM	0830	0845	5	
32	TL	0830	0845	5	
33	JE	0830	0845	5	
41	EG	0830	0845	5	
42	CM	0845	0900	5	
56	TL	0845	0900	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Eduardo Gutierrez, Tim Lynch, John Espinoza

Date: 9/16/04 Instrument Used: QUA D8/88/108

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
3	JE	0845	0900	5	
4	EG	0845	0900	5	
5	CM	0900	0915	5	
7	TL	0900	0915	5	
8	JE	0900	0915	5	
9	EG	0900	0915	5	
10	CM	0915	0930	5	
31	TL	0915	0930	5	
63	JE	0915	0930	5	
74	EG	0915	0930	5	
91	CM	0930	0945	5	
92	TL	0930	0945	5	
100	JE	0930	0945	5	
130	EG	0930	0945	5	
128	CM	0945	1000	5	
129	TL	0945	1000	5	
6	JE	0945	1000	5	
24	EG	0945	1000	5	
40	CM	1000	1015	5	
61	TL	1000	1015	5	
85	JE	1000	1015	5	
90	EG	1000	1015	5	
96	CM	1015	1030	5	
99	TL	1015	1030	5	
103	JE	1015	1030	5	
106	EG	1015	1030	5	
110	CM	1030	1045	5	
115	TL	1030	1045	5	
114	JE	1030	1045	5	
116	EG	1030	1045	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Edwardo Gutierrez, Tim Lynch, John Espinoza

Date: 9/16/04 Instrument Used: OVA 128/88/108

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
117	CM	1045	1100	5	
120	TL	1045	1100	5	
121	JE	1045	1100	5	
122	EG	1045	1100	5	
77	CM	1100	1115	5	
109	TL	1100	1115	5	
105	JE	1100	1115	5	
102	EG	1100	1115	5	
98	CM	1115	1130	5	
95	TL	1115	1130	5	
89	EG	1115	1130	5	
87	JE	1115	1130	5	
83	CM	1130	1145	5	
86	TL	1130	1145	5	
82	EG	1130	1145	5	
79	JE	1130	1145	5	
71	CM	1145	1200	5	
72	TL	1145	1200	5	
80	JE	1145	1200	5	
68	EG	1145	1200	5	
67	CM	1200	1215	5	
50	TL	1200	1215	5	
53	JE	1200	1215	5	
57	EG	1200	1215	5	
43	CM	1215	1230	5	
65	TL	1215	1230	5	
58	JE	1215	1230	5	
54	EG	1215	1230	5	
51	CM	1230	1245	5	
48	TL	1230	1245	5	

Attach Calibration Sheet
Attach site map showing grid ID

BRADLEY LANDFILL

INSTANTANEOUS LANDFILL SURFACE MONITORING

Personnel: Craig Markley, Eduardo Gutierrez, Tim Lynch, John Espinoza

Date: 9/6/04 Instrument Used: OVA 128/88/108

Temperature: _____

GRID ID	STAFF INITIALS	START TIME	STOP TIME	TOC PPM	REMARKS
46	JE	1230	1245	5	
35	EG	1230	1245	5	
34	CM	1245	1300	5	
20	TL	1245	1300	5	
21	JE	1245	1300	5	
22	EG	1245	1300	5	
49	CM	1300	1315	5	
52	TL	1300	1315	5	
55	JE	1300	1315	5	
60	EG	1300	1315	5	
59	CM	1315	1330	5	
66	TL	1315	1330	5	
73	JE	1315	1330	5	
81	EG	1315	1330	5	
84	TL	1330	1345	5	

Attach Calibration Sheet
Attach site map showing grid ID

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: September 7, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: September 1, 2004
Date Analyzed: September 1 & 2, 2004

AtmAA Lab No.:	02454-1	02454-2	02454-3	02454-4
Sample I.D.:	Ambient Air AA-1	Ambient Air AA-2	Ambient Air AA-3	Ambient Air AA-4
Components	(Concentration in ppmv)			
Methane	2.32	2.13	1.87	1.98
TGNMO	1.76	1.72	<1	1.02
	(Concentration in ppbv)			
Hydrogen sulfide	<50	<50	<50	<50
Benzene	0.26	0.23	0.22	0.34
Benzylchloride	<0.4	<0.4	<0.4	<0.4
Chlorobenzene	<0.1	<0.1	<0.1	<0.1
Dichlorobenzenes*	<1.1	<1.1	<1.1	<1.1
1,1-dichloroethane	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethylene	<0.1	<0.1	<0.1	<0.1
Dichloromethane	0.10	<0.1	0.12	0.11
1,2-dibromoethane	<0.1	<0.1	<0.1	<0.1
Perchloroethene	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	0.12	0.11	0.11	0.11
Toluene	1.90	1.70	1.33	1.46
1,1,1-trichloroethane	<0.1	<0.1	<0.1	<0.1
Trichloroethene	<0.1	0.11	<0.1	<0.1
Chloroform	0.12	0.12	0.13	0.11
Vinyl chloride	<0.1	<0.1	<0.1	<0.1
m+p-xylenes	0.43	0.40	0.41	0.41
o-xylene	0.18	0.17	0.20	0.15

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: September 1, 2004
Date Analyzed: September 1 & 2, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	AA-1	2.34	2.31	2.32	0.64
TGNMO	AA-1	1.83	1.68	1.76	4.3
		(Concentration in ppbv)			
Hydrogen sulfide	AA-1	<50	<50	---	---
Benzene	AA-1	0.25	0.26	0.26	2.0
Benzylchloride	AA-1	<0.4	<0.4	---	---
Chlorobenzene	AA-1	<0.1	<0.1	---	---
Dichlorobenzenes	AA-1	<1.1	<1.1	---	---
1,1-dichloroethane	AA-1	<0.1	<0.1	---	---
1,2-dichloroethane	AA-1	<0.1	<0.1	---	---
1,1-dichloroethylene	AA-1	<0.1	<0.1	---	---
Dichloromethane	AA-1	0.10	<0.1	---	---
1,2-dibromoethane	AA-1	<0.1	<0.1	---	---
Perchloroethene	AA-1	<0.1	<0.1	---	---
Carbon tetrachloride	AA-1	0.12	0.11	0.12	4.3
Toluene	AA-1	1.85	1.94	1.90	2.4
1,1,1-trichloroethane	AA-1	<0.1	<0.1	---	---
Trichloroethene	AA-1	<0.1	<0.1	---	---
Chloroform	AA-1	0.12	0.13	0.12	4.0
Vinyl chloride	AA-1	<0.1	<0.1	---	---
m+p-xylenes	AA-1	0.46	0.40	0.43	7.0
o-xylene	AA-1	0.19	0.17	0.18	5.6

Four Tedlar bag samples, laboratory numbers 02454-(1-4), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 8 repeat measurements from four Tedlar bag samples is 3.8%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
BRADLEY LANDFILL	SUNVALLEY CA
Project No.	**Field Logbook No.**
Sampler: (Print)	**(Signature)**
CHRIS Summerford	

No. Of Containers: 4

ANALYSES: TOC, THC

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	TOC	THC				Remarks
AA-1	8-29/30-04	0900-2100	02454-1	AMBIENT	X	X				1150,1
AA-2	8-29/30-04	0900-2100	-2	"	X	X				
AA-3	8-29/30-04	2100-0900	-3	"	X	X				
AA-4	8-29/30-04	2100-0900	-4	"	X	X				

Relinquished by: *(Signature)*	Date: 9-1-04	Time: 800	Received by: *(Signature)*	Date: 9/1/04	Time: 800
Relinquished by: *(Signature)*	Date	Time	Received by: *(Signature)*	Date	Time
Relinquished by: *(Signature)*	Date	Time	Received for Laboratory: *(Signature)*	Date	Time
Sample Disposal Method:	Disposed of by: *(Signature)*			Date	Time

Sample Collector

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

Analytical Laboratory

ATMA

APPENDIX E

LANDFILL GAS SAMPLING

- Laboratory Analysis
- Chain-of-Custody

AtmAA Inc.
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environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide, Reduced Sulfur Compounds, and BTU
Analysis in Landfill Gas Tedlar Bag Samples

Report Date: August 2, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: July 23, 2004
Date Analyzed: July 23 & 24, 2004

ANALYSIS DESCRIPTION

Hydrogen sulfide was analyzed by gas chromatography with a Hall electrolytic conductivity detector operated in the oxidative sulfur mode. All other sulfur components were measured by GC/ Mass Spec. BTU is calculated from methane, which was measured by thermal conductivi detection/gas chromatography (TCD/GC), and total gaseous non-methane organics (TGNMO), which was measured by flame ionization detection/total combustion analysis (FID/TCA).

AtmAA Lab No.:	02054-6	02054-7	02054-8	02054-9
Sample I.D.:	Gas Plant	Flare #3	Flare #1	Flare #2
	BL-001	BL-002	BL-003	BL-004
Components	*(Concentration in ppmv)*			
Hydrogen sulfide	55.4	12.0	7.24	22.0
Carbonyl sulfide	0.43	0.42	<0.3	<0.3
Methyl mercaptan	3.56	1.62	<0.8	<0.8
Ethyl mercaptan	<0.8	<0.8	<0.8	<0.8
Dimethyl sulfide	7.04	9.04	1.03	<0.8
Carbon disulfide	0.25	<0.2	<0.2	<0.2
iso-propyl mercaptan	0.34	<0.3	<0.3	<0.3
n-propyl mercaptan	<0.3	<0.3	<0.3	<0.3
Dimethyl disulfide	0.22	0.40	<0.2	<0.2
TRS	67.7	23.9	8.27	22.0
BTU / ft.3	392	261	83.6	172

TRS - total reduced sulfur

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: July 23, 2004
Date Analyzed: July 23 & 24, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Hydrogen sulfide	Gas Plant	55.4	55.4	55.4	0.0
	Flare #3	11.8	12.3	12.0	2.1
	Flare #1	7.00	7.47	7.24	3.2
	Flare #2	22.8	21.1	22.0	3.9
Carbonyl sulfide	Gas Plant	0.43	0.43	0.43	0.0
Methyl mercaptan	Gas Plant	3.46	3.67	3.56	2.9
Ethyl mercaptan	Gas Plant	<0.8	<0.8	---	---
Dimethyl sulfide	Gas Plant	7.20	6.87	7.04	2.3
Carbon disulfide	Gas Plant	0.26	0.24	0.25	4.0
iso-propyl mercaptan	Gas Plant	0.34	0.34	0.34	0.0
n-propyl mercaptan	Gas Plant	<0.3	<0.3	---	---
Dimethyl disulfide	Gas Plant	0.23	0.21	0.22	4.5

A set of four Tedlar bag samples, laboratory numbers 02054-(6-9), was analyzed for hydrogen sulfide, reduced sulfur compounds, and BTU. Agreement between repeat analysis is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 10 repeat measurements from the sample set of four Tedlar bag samples is 2.3%.

CHAIN OF CUSTODY

Ref. Document # _____

Page 1 of 1

Shaw Environmental and Infrastructure Inc.

Company Name: *Shaw Environmental & Infra., Inc.*
Address: *9081 Tujunga Avenue*
City / State / Zip: *Sun Valley, CA 91352*
Manager: *Darrell Thompson*
Phone/Fax Number: *(626) 535-9076*
Send Report To: *Tom Sandhu*
Address: *3452 E. Foothill Boulevard*
City: *Pasadena, California 91107*
Project Contact: *Tom Sandhu*
Phone/Fax Number: *(818) 822-5273*

Project Number: *108341.01*
Project Name: *Bradley Landfill*
Project Location: *Sun Valley, California*
Purchase Order #:
Lab Destination: *AtmAA, Inc.*
Lab Contact: *Micheal*
Lab Phone #: *(818) 223-3277*

Program: [ ] Navy [ ] AFCEE [ ] DOT [X] USACE [ ] NPDES [ ] RCRA [ ] Other

Shaw Sample Number	Sample Identification	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice		Requesting Testing Program: Total BTU's	TOC Method 25	TAC Rule 1150.1	TRS / 307.91	Table 1 Core Group	CO_2, O_2, N_2	Fixed Gases		H2S (ppm) Field Testing		MS/MSD = M, Field Duplicate = D
BL-001	Gas Plant	9.27.04	0950	LF	A	1								x	x	x	x	x				60		
BL-002	Flare #3	9.27.04	0930	LF	A	1								x	x	x	x	x				22		
BL-003	Flare #1	9.27.04	0936	LF	A	1								x	x	x	x	x				50		
BL-004	Flare #2	9.27.04	0942	LF	A	1								x	x	x	x	x				39		
BL-010	Probe E8D	9.27.04	1050	LF	A	1									x	x		x	x			1		

Special Instructions:

Sampler(s) Name(s): Ramon Ibarra

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Warren Goldstein	9.27.04	1220		9/27	1220
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Turnaround Time: (Normal) Rush

Method Codes
C = Composite G = Grab
LF - Low Flow

Matrix Codes
DW = Drinking Water SO =Soil
GW = Ground Water SL = Sludge
WW = Waste Water CP = Chip Samples
SW = Surface Water WP = Wipe Samples
LIQ = Other Liquid A = Air Sample
SOL = Other Solid

AtmAA Inc.
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environmental consultants
laboratory services

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide, Reduced Sulfur Compounds, and BTU
Analysis in Landfill Gas Tedlar Bag Samples

Report Date: September 3, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Client Project No.: 108341.01
Date Received: August 20, 2004
Date Analyzed: August 20 & 23, 2004

ANALYSIS DESCRIPTION

Hydrogen sulfide was analyzed by gas chromatography with a Hall electrolytic conductivity detector operated in the oxidative sulfur mode. All other sulfur components were measured by GC/ Mass Spec. BTU is calculated from methane, which was measured by thermal conductivity detection/gas chromatography (TCD/GC), and total gaseous non-methane organics (TGNMO), which was measured by flame ionization detection/total combustion analysis (FID/TCA).

AtmAA Lab No.:	02334-3	02334-4	02334-5	02334-6
Sample I.D.:	Gas Plant BL-001	Flare #3 BL-002	Flare #1 BL-003	Flare #2 BL-004
Components	*(Concentration in ppmv)*			
Hydrogen sulfide	56.6	18.9	42.6	35.0
Carbonyl sulfide	0.32	0.24	0.26	<0.2
Methyl mercaptan	2.65	1.77	2.81	<0.6
Ethyl mercaptan	<0.6	<0.6	<0.6	<0.6
Dimethyl sulfide	5.12	7.81	5.41	<0.6
Carbon disulfide	<0.2	<0.2	<0.2	<0.2
iso-propyl mercaptan	0.24	<0.2	<0.2	<0.2
n-propyl mercaptan	<0.2	<0.2	<0.2	<0.2
Dimethyl disulfide	0.34	0.41	0.32	<0.2
TRS	65.6	29.5	51.7	35.0
BTU / ft.3	396	260	385	242

TRS - total reduced sulfur

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: August 20, 2004
Date Analyzed: August 20 & 23, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Hydrogen sulfide	Gas Plant	54.7	58.4	56.6	3.3
	Flare #3	19.4	18.4	18.9	2.6
	Flare #1	43.9	41.3	42.6	3.0
	Flare #2	34.4	35.6	35.0	1.7
Carbonyl sulfide	Gas Plant	0.33	0.32	0.32	1.5
Methyl mercaptan	Gas Plant	2.64	2.66	2.65	0.38
Ethyl mercaptan	Gas Plant	<0.6	<0.6	---	---
Dimethyl sulfide	Gas Plant	5.33	4.91	5.12	4.1
Carbon disulfide	Gas Plant	<0.2	<0.2	---	---
iso-propyl mercaptan	Gas Plant	0.25	0.24	0.24	2.0
n-propyl mercaptan	Gas Plant	<0.2	<0.2	---	---
Dimethyl disulfide	Gas Plant	0.36	0.32	0.34	5.9

A set of four Tedlar bag samples, laboratory numbers 02334-(3-6), was analyzed for hydrogen sulfide, reduced sulfur compounds, and BTU. Agreement between repeat analysis is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 9 repeat measurements from the sample set of four Tedlar bag samples is 2.7%.

Shaw

Shaw Environmental and Infrastructure Inc.

CHAIN OF CUSTODY

Ref. Document # _____

Page 1 of 1

Company Name: *Shaw Environmental & Infra., Inc.*
Address: *9081 Tujunga Avenue*
City / State / Zip: *Sun Valley, CA 91352*
Manager: *Darrell Thompson*
Phone/Fax Number: *818-767-0444*
Send Report To: *Tom Sandhu*
Address: *9081Tujunga Avenue*
City: *Sun Valley, CA 91352*
Project Contact: *Tom Sandhu*
Phone/Fax Number: *(818) 822-5273*

Project Number: *108341.01*
Project Name: *Bradley Landfill*
Project Location: *Sun Valley, California*
Purchase Order #:
Lab Destination: *AtmAA, Inc.*
Lab Contact: *Micheal*
Lab Phone #: *(818) 223-3277*

Program: [ ] Navy [ ] AFCEE [ ] DOT [X] USACE [ ] NPDES [ ] RCRA [ ] Other

	Shaw Sample Number	Sample Identification	Collection Information: Date	Time	Method	Matrix	# of Containers	QC Level	PRESERVATION: HCL	NaOH	HNO_3	H_2SO_4	Ice		Requesting Testing Program: Total BTU's	TOC Method 25	TAC Rule 1150.1	TRS / 307.91	Table 1 Core Group	Fixed Gases (CO_2, O_2, N_2)			H2S (ppm) Field Testing		MS/MSD = M, Field Duplicate = D
02334-3	BL-001	Gas Plant	08/20/04	9:34	G	A	1								x			x					50		
-4	BL-002	Flare #3	08/20/04	9:54	G	A	1								x			x					20		
-5	BL-003	Flare #1	08/20/04	10:01	G	A	1								x			x					40		
-6	BL-004	Flare #2	08/20/04	10:03	G	A	1								x			x					20		

Special Instructions:

Sampler(s) Name(s):

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
[signature]	8/20/04	12:25	[signature]	8-20-04	
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
			[signature]		
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Turnaround Time: Normal | Rush

Method Codes
C = Composite | G = Grab
LF - Low Flow

Matrix Codes
DW = Drinking Water | SO =Soil
GW = Ground Water | SL = Sludge
WW = Waste Water | CP = Chip Samples
SW = Surface Water | WP = Wipe Samples
LIQ = Other Liquid | A = Air Sample
SOL = Other Solid

AtmAA Inc.
23017 Craftsman Rd.
Calabasas, CA 91302

FAX TRANSMITTAL # of Pages 7
TO: Tom Sandhu FROM: Brian
CO: Shaw Atm AA Inc.
DATE: PHONE: (818) 223-3277
FAX# FAX# (818) 223-8250
COMMENTS Bradley report sent 10/8

LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Landfill Gas Tedlar Bag Samples

Report Date: October 8, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: September 27, 2004
Date Analyzed: September 27, 2004

AtmAA Lab No.:	02714-3	02714-4	02714-5	02714-6
Sample I.D.:	Gas Plant BL-001	Flare #3 BL-002	Flare #1 BL-003	Flare #2 BL-004
Components		*(Concentration in %,v)*		
Nitrogen	18.4	34.4	20.0	41.8
Oxygen	1.08	3.48	1.04	2.32
Methane	41.4	30.7	40.2	26.4
Carbon dioxide	36.5	28.2	35.5	26.2
		(Concentration in ppmv)		
TGNMO	13300	8600	14400	4100
Hydrogen sulfide	53.4	23.2	58.8	45.8
		(Concentration in ppbv)		
Benzene	6470	14300	4770	1070
Benzylchloride	<40	<40	<40	<40
Chlorobenzene	190	394	180	251
Dichlorobenzenes*	3120	942	2480	1550
1,1-dichloroethane	284	184	366	<30
1,2-dichloroethane	124.0	68.9	121	<20
1,1-dichloroethylene	74.8	54.5	109	<40
Dichloromethane	1090	198	1380	<30
1,2-dibromoethane	<30	<30	<30	<30
Perchloroethylene	2660	1530	3060	151
Carbon tetrachloride	<30	<30	<30	<30
Toluene	37600	30000	40200	4200
1,1,1-trichloroethane	26.4	<20	<20	<20
Trichloroethene	908	532	1010	113
Chloroform	<20	<20	<20	<20
Vinyl chloride	158	408	214	518
m+p-xylenes	19900	16200	20500	8060
o-xylene	7030	5440	7060	3710

The reported oxygen concentration includes any argon present in the sample. Calibration is based on a standard atmosphere containing 20.95% oxygen and 0.93% argon.
The accuracy of the TCD/GC Method for permanent gases is +/- 2%, actual results are reported.
TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

AtmAA Inc.
23917 Craftsman Rd.
Calabasas, CA 91302

LABORATORY ANALYSIS REPORT

Hydrogen Sulfide, Reduced Sulfur Compounds, and BTU
Analysis in Landfill Gas Tedlar Bag Samples

Report Date: October 8, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: September 27, 2004
Date Analyzed: September 27, 2004

ANALYSIS DESCRIPTION

Hydrogen sulfide was analyzed by gas chromatography with a Hall electrolytic conductivity detector operated in the oxidative sulfur mode. All other sulfur components were measured by GC/ Mass Spec. BTU is calculated from methane, which was measured by thermal conductivity detection/gas chromatography (TCD/GC), and total gaseous non-methane organics (TGNMO), which was measured by flame ionization detection/total combustion analysis (FID/TCA).

AtmAA Lab No.:	02714-3	02714-4	02714-5	02714-6
Sample I.D.:	Gas Plant BL-001	Flare #3 BL-002	Flare #1 BL-003	Flare #2 BL-004
Components	(Concentration in ppmv)			
Hydrogen sulfide	53.4	23.2	58.8	45.8
Carbonyl sulfide	0.34	0.097	0.39	<0.08
Methyl mercaptan	3.18	3.20	4.03	0.63
Ethyl mercaptan	<0.1	<0.1	<0.1	0.24
Dimethyl sulfide	7.04	8.87	7.08	0.43
Carbon disulfide	0.12	<0.06	0.078	0.11
isopropyl mercaptan	0.34	0.10	0.43	<0.06
n-propyl mercaptan	<0.06	<0.06	<0.06	<0.06
Dimethyl disulfide	0.52	0.49	0.36	0.11
TRS	65.6	36.4	71.6	47.5
BTU / ft.3	425	322	270	369

TRS - total reduced sulfur

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: September 27, 2004
Date Analyzed: September 27, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in %,v)			
Nitrogen	Gas Plant	18.3	18.4	18.4	0.27
	Flare #3	34.4	34.4	34.4	0.0
Oxygen	Gas Plant	1.07	1.10	1.08	1.4
	Flare #3	3.43	3.54	3.48	1.6
Methane	Gas Plant	41.6	41.3	41.4	0.36
	Flare #3	30.7	30.7	30.7	0.0
Carbon dioxide	Gas Plant	36.4	36.6	36.5	0.27
	Flare #3	28.0	28.5	28.2	0.88
		(Concentration in ppmv)			
TGNMO	Flare #3	8590	8600	8600	0.058
	Flare #1	13900	14800	14400	3.1
		(Concentration in ppbv)			
Benzene	Gas Plant	6480	6460	6470	0.15
Benzylchloride	Gas Plant	<40	<40	---	---
Chlorobenzene	Gas Plant	199	181	190	4.7
Dichlorobenzenes	Gas Plant	3350	2900	3120	7.2
1,1-dichloroethane	Gas Plant	287	280	284	1.2
1,2-dichloroethane	Gas Plant	118	130	124	4.8
1,1-dichloroethylene	Gas Plant	75.0	74.5	74.8	0.33
Dichloromethane	Gas Plant	923	1260	1090	15
1,2-dibromoethane	Gas Plant	<30	<30	---	---
Perchloroethylene	Gas Plant	2710	2600	2660	2.1
Carbon tetrachloride	Gas Plant	<30	<30	---	---

QUALITY ASSURANCE SUMMARY
(Repeat Analyses)
(continued)

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppbv)			
Toluene	Gas Plant	37800	37400	37600	0.53
1,1,1-trichloroethane	Gas Plant	27.0	25.7	26.4	2.5
Trichloroethene	Gas Plant	924	891	908	1.8
Chloroform	Gas Plant	<20	<20	---	---
Vinyl chloride	Gas Plant	150	167	158	5.4
m+p-xylenes	Gas Plant	20400	19400	19900	2.5
o-xylene	Gas Plant	7230	6830	7030	2.8
Sulfur Components		*(Concentration in ppmv)*			
Hydrogen sulfide	Gas Plant	53.7	53.1	53.4	0.56
	Flare #3	23.1	23.2	23.2	0.22
	Flare #1	61.5	56.1	58.8	4.6
	Flare #2	45.8	45.7	45.8	0.11
Carbonyl sulfide	Gas Plant	0.35	0.34	0.34	1.4
Methyl mercaptan	Gas Plant	3.16	3.20	3.18	0.63
Ethyl mercaptan	Gas Plant	<0.1	<0.1	---	---
Dimethyl sulfide	Gas Plant	7.26	6.82	7.04	3.1
Carbon disulfide	Gas Plant	0.12	0.11	0.12	4.3
iso-propyl mercaptan	Gas Plant	0.34	0.33	0.34	1.5
n-propyl mercaptan	Gas Plant	<0.06	<0.06	---	---
Dimethyl disulfide	Gas Plant	0.54	0.49	0.52	4.8

Four Tedlar bag samples, laboratory numbers 02714-(3-6), were analyzed for SCAQMD 1150.1 components, permanent gases, TGNMO, hydrogen sulfide, and reduced sulfur compounds. Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 34 repeat measurements from the four Tedlar bag samples is 2.4%.

APPENDIX F

AMBIENT AIR SAMPLING

- Laboratory Analysis
- Chain of Custody
- Wind Speed and Direction Records

AtmAA Inc.
23917 Craftsman Rd., Calabasas, CA 91302 • (818) 223-3277 • FAX (818) 223-8250

environmental consultants
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LABORATORY ANALYSIS REPORT

SCAQMD Rule 1150.1 Components Analysis in Ambient Air Tedlar Bag Samples

Report Date: September 7, 2004
Client: Shaw Environmental
Project Location: Bradley Landfill
Date Received: September 1, 2004
Date Analyzed: September 1 & 2, 2004

AtmAA Lab No.:	02454-1	02454-2	02454-3	02454-4
Sample I.D.:	Ambient Air AA-1	Ambient Air AA-2	Ambient Air AA-3	Ambient Air AA-4
Components	(Concentration in ppmv)			
Methane	2.32	2.13	1.87	1.98
TGNMO	1.76	1.72	<1	1.02
	(Concentration in ppbv)			
Hydrogen sulfide	<50	<50	<50	<50
Benzene	0.26	0.23	0.22	0.34
Benzylchloride	<0.4	<0.4	<0.4	<0.4
Chlorobenzene	<0.1	<0.1	<0.1	<0.1
Dichlorobenzenes*	<1.1	<1.1	<1.1	<1.1
1,1-dichloroethane	<0.1	<0.1	<0.1	<0.1
1,2-dichloroethane	<0.1	<0.1	<0.1	<0.1
1,1-dichloroethylene	<0.1	<0.1	<0.1	<0.1
Dichloromethane	0.10	<0.1	0.12	0.11
1,2-dibromoethane	<0.1	<0.1	<0.1	<0.1
Perchloroethene	<0.1	<0.1	<0.1	<0.1
Carbon tetrachloride	0.12	0.11	0.11	0.11
Toluene	1.90	1.70	1.33	1.46
1,1,1-trichloroethane	<0.1	<0.1	<0.1	<0.1
Trichloroethene	<0.1	0.11	<0.1	<0.1
Chloroform	0.12	0.12	0.13	0.11
Vinyl chloride	<0.1	<0.1	<0.1	<0.1
m+p-xylenes	0.43	0.40	0.41	0.41
o-xylene	0.18	0.17	0.20	0.15

TGNMO is total gaseous non-methane organics measured and reported as ppm methane.
** total amount containing meta, para, and ortho isomers*

Michael L. Porter
Laboratory Director

QUALITY ASSURANCE SUMMARY

(Repeat Analyses)

Project Location: Bradley Landfill
Date Received: September 1, 2004
Date Analyzed: September 1 & 2, 2004

Components	Sample ID	Repeat Analysis Run #1	Repeat Analysis Run #2	Mean Conc.	% Diff. From Mean
		(Concentration in ppmv)			
Methane	AA-1	2.34	2.31	2.32	0.64
TGNMO	AA-1	1.83	1.68	1.76	4.3
		(Concentration in ppbv)			
Hydrogen sulfide	AA-1	<50	<50	---	---
Benzene	AA-1	0.25	0.26	0.26	2.0
Benzylchloride	AA-1	<0.4	<0.4	---	---
Chlorobenzene	AA-1	<0.1	<0.1	---	---
Dichlorobenzenes	AA-1	<1.1	<1.1	---	---
1,1-dichloroethane	AA-1	<0.1	<0.1	---	---
1,2-dichloroethane	AA-1	<0.1	<0.1	---	---
1,1-dichloroethylene	AA-1	<0.1	<0.1	---	---
Dichloromethane	AA-1	0.10	<0.1	---	---
1,2-dibromoethane	AA-1	<0.1	<0.1	---	---
Perchloroethene	AA-1	<0.1	<0.1	---	---
Carbon tetrachloride	AA-1	0.12	0.11	0.12	4.3
Toluene	AA-1	1.85	1.94	1.90	2.4
1,1,1-trichloroethane	AA-1	<0.1	<0.1	---	---
Trichloroethene	AA-1	<0.1	<0.1	---	---
Chloroform	AA-1	0.12	0.13	0.12	4.0
Vinyl chloride	AA-1	<0.1	<0.1	---	---
m+p-xylenes	AA-1	0.46	0.40	0.43	7.0
o-xylene	AA-1	0.19	0.17	0.18	5.6

Four Tedlar bag samples, laboratory numbers 02454-(1-4), were analyzed for SCAQMD Rule 1150.1 components, methane, and total gaseous non-methane organics (TGNMO). Agreement between repeat analyses is a measure of precision and is shown above in the column "% Difference from Mean". Repeat analyses are an important part of AtmAA's quality assurance program. The average % Difference from Mean for 8 repeat measurements from four Tedlar bag samples is 3.8%.

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
BRADLEY LANDFILL	SUNVALLEY CA
Project No.	**Field Logbook No.**
Sampler: (Print)	**(Signature)**
CHRIS Summerford	CMS

No. Of Containers: 4

ANALYSES: TOC, THC

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	TOC	THC				Remarks
AA-1	8-29/30-04	0900-2100	02454-1	AMBIENT	X	X				1150,1
AA-2	8-29/30-04	0900-2100	-2	"	X	X				
AA-3	8-29/30-04	2100-0900	-3	"	X	X				
AA-4	8-29/30-04	2100-0900	-4	"	X	X				

	Date	Time		Date	Time
Relinquished by: (Signature)	9-1-04	800	Received by: (Signature)	9/1/04	8:00
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received for Laboratory: (Signature)		
Sample Disposal Method:			Disposed of by: (Signature)		

Sample Collector

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

Analytical Laboratory

ATMA

APPENDIX G

TEDLAR BAG QUALITY ASSURANCE AND CONTROL

- Tedlar Bag Checklist

Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: Bradley BAG #

DATE PREPARED: 8-27-04 PREPARED BY: CWS

SAMPLER # 3 RUN DATE: 8-29-04

BAG INSTALLATION

BAG INSTALLED BY: CWS DATE: 8-29-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 0900

LOCATION: AA-1

BAG REMOVAL

BAG REMOVED BY: CWS DATE: 8-29-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 2100

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CWS

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: Bradley BAG #

DATE PREPARED: 8-27-04 PREPARED BY: CWS

SAMPLER # 3 RUN DATE: 8-29-04

BAG INSTALLATION

BAG INSTALLED BY: CWS DATE: 8-29-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 2100

LOCATION: AA-3

BAG REMOVAL

BAG REMOVED BY: CWS DATE: 8-30-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 0900

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CWS

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: Bradley BAG #

DATE PREPARED: 8-27-04 PREPARED BY: CWS

SAMPLER # 4 RUN DATE: 8-29-04

BAG INSTALLATION

BAG INSTALLED BY: CWS DATE: 8-29-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 0900

LOCATION: AA – 2

BAG REMOVAL

BAG REMOVED BY: CWS DATE: 8-29-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 2100

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CWS

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

Environmental Inc.

BAG SAMPLER QUALITY CONTROL

PROJECT/SITE: Bradley BAG #

DATE PREPARED: 8-27-04 PREPARED BY: CWS

SAMPLER # 4 RUN DATE: 8-29-04

BAG INSTALLATION

BAG INSTALLED BY: CWS DATE: 8-29-04

FLOW READING: 85 cc ADJUSTED ? ( ) NO ( ) OPEN VALVE (✓)

TIME STARTED:

LOCAL 2100

LOCATION: AA-4

BAG REMOVAL

BAG REMOVED BY: CWS DATE: 8-30-04

CLOSE VALVE (✓) FLOW AT END: 85 cc

BAG STATUS: FULL (✓) 1/2 FULL ( ) EMPTY ( )

TIME ENDED:

LOCAL 0900

SAMPLER STATUS: WORKING (✓) NOT WORKING ( )
(specify in comments)

BATTERY STATUS GOOD (✓) BAD ( )

COMMENTS:

REVIEWED BY: CWS

865 Via Lata ▪ Colton, California 92324 ▪ (909) 422-1001 Fax (909) 422-0707

CHAIN OF CUSTODY RECORD

Client/Project Name	Project Location
BRADLEY LANDFILL	SUNNY OIL
Project No.	**Field Logbook No.**
Sampler: (Print)	**(Signature)**
CHRIS Summerford	(sign)

No. Of Containers: 4

ANALYSES

Sample No./ Identification	Date	Time	Lab Sample Number	Type of Sample	TOC	TAL				Remarks
AA-1	8-29/30-04	0900-2100		AMBIENT	X	X				1150.1
AA-2	8-29/30-04	0900-2100		"	X	X				
AA-3	8-29/30-04	2100-0900		"	X	X				
AA-4	8-29/30-04	2100-0900		"	X	X				

	Date	Time		Date	Time
Relinquished by: *(Signature)*	9-1-04	800	Received by: *(Signature)*	9/1/04	8:00
Relinquished by: *(Signature)*			Received by: *(Signature)*		
Relinquished by: *(Signature)*			Received for Laboratory: *(Signature)*		
Sample Disposal Method:			Disposed of by: *(Signature)*		

Sample Collector

RES Environmental Inc.
865 Via Lata • Colton, California 92324
(909) 422-1001 Fax (909) 422-0707

Analytical Laboratory

ATMA

APPENDIX H

AGENCY CORRESPONDENCE

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

July 06, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including June 13, 2004 through June 20, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including June13 through June 20, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

July 14, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including June 13, 2004 through June 20, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including June22 through July 07, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

July 22, 2004

Ms. Gail Jones
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Reply Report for Notice To Comply issued July 19, 2004 Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Gail:

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Reply Report to the Notice To Comply issued on May 19, 2004. The incident that initiated the NTC was an anomalous act by a scraper operator who thought he was responding to a fire emergency. The fire ultimately proved to be a surface brush fire, not a subsurface event that required dirt to be hauled to the site.

After receiving the NTC on Monday, July 19, dust mitigation measures were immediately verbally reviewed with the equipment operators and other landfill personnel. As a follow up, a training tailgate reviewing dust mitigation measures was conducted beginning on July 20th with all landfill and recycling employees. (See Attached). The discussion items were not new to the employees, but the intent was to heighten their awareness level to present extreme conditions. Other Dust mitigation BMP's such as the track-out grates and sweeping continue to be implemented.

Thank you for the opportunity to respond to your concerns. If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: Dean Wise, District Manager
f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

July 23, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including July 14, 2004 through July 17, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including July14 through July 17, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

July 28, 2004

United States Environmental Protection Agency
Region IX - Air Division
75 Hawthorne Street
San Francisco, California 94105

Mr. Ted Kowalczyk
South Coast Air Quality Management District
21865 E. Copley Drive
Diamond Bar, CA 91765

Re: Startup, Shutdown, and Malfunction Plan Semi-Annual Report
Bradley Landfill and Recycling Center
9081 Tujunga Avenue
Sun Valley, California 91352

Dear Sir or Madam:

Bradley Landfill Recycling Center (BLRC) is subject to 40 CFR Part 63, Subpart AAAA, the National Emission Standard for Hazardous Air Pollutants (NESHAPs) for Municipal Solid Waste Landfills. In accordance with NESHAPs requirements, a startup, shutdown, and malfunction (SSM) plan (SSM Plan) was prepared for the BLRC. This SSM Plan documents the procedures for operating and maintaining the affected elements of the landfill gas (LFG) collection and control system (GCCS) during startup, shutdown, and malfunction events.

In addition to the requirement to prepare an SSM Plan, 40 CFR §63.10(d)(5)(i) contains provisions requiring periodic SSM reports. At a minimum these reports must be prepared on a semi-annual basis and must be delivered or postmarked by the 30th day following the end of the calendar half (or other period specified by the regulatory agency or permit). These reports must address the following types of events:

- SSM events for which all actions taken followed the SSM plan.
- SSM events for which actions taken did not follow the SSM plan, but no exceedance of an applicable emission limitation occurred.
- SSM events for which actions taken did not follow the SSM plan and an exceedance of an applicable emission limitation ***did occur*** or ***may have occurred***. For these events, the duration and a brief description must be provided.

This letter is organized into four sections, one for startup reporting, one for shutdown reporting, one for malfunction reporting, and one for SSM Plan revisions. Attachments containing additional information are also provided.

This letter represents Bradley Landfill and Recycling Center semi-annual SSM report and covers the period between January 16, 2004 and June 30, 2004. The required Responsible Official certification is included in Attachment A.

Startup Events

During the reporting period covered by this report, a total of **562** GCCS startup events occurred. Of this total number of events, the actions taken in response to **562** startup events were consistent with the SSM Plan. There were **0** startup events that were **not** consistent with the SSM Plan. Details of the startup events for which actions were not consistent with the SSM Plan are provided in Attachment B.

Summary of Startup Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Startup Events**
Jan-04	IC Engine #1	19
Feb-04	IC Engine #1	12
Mar-04	IC Engine #1	15
Apr-04	IC Engine #1	5
May-04	IC Engine #1	16
June-04	IC Engine #1	5
	Total	**72**
Jan-04	IC Engine #2	12
Feb-04	IC Engine #2	11
Mar-04	IC Engine #2	11
Apr-04	IC Engine #2	9
May-04	IC Engine #2	16
June-04	IC Engine #2	4
	Total	**63**
Jan-04	IC Engine #3	19
Feb-04	IC Engine #3	36
Mar-04	IC Engine #3	19
Apr-04	IC Engine #3	6
May-04	IC Engine #3	7
June-04	IC Engine #3	5
	Total	**92**
Jan-04	IC Engine #4	14
Feb-04	IC Engine #4	17
Mar-04	IC Engine #4	19
Apr-04	IC Engine #4	10
May-04	IC Engine #4	2

Summary of Startup Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Startup Events**
June-04	IC Engine #4	2
	Total	**64**
Jan-04	IC Engine #5	20
Feb-04	IC Engine #5	15
Mar-04	IC Engine #5	12
Apr-04	IC Engine #5	14
May-04	IC Engine #5	24
June-04	IC Engine #5	4
	Total	**89**
Jan-04	Flare #1	8
Feb-04	Flare #1	7
Mar-04	Flare #1	5
Apr-04	Flare #1	4
May-04	Flare #1	6
June-04	Flare #1	10
	Total	**40**
Jan-04	Flare #2	3
Feb-04	Flare #2	3
Mar-04	Flare #2	6
Apr-04	Flare #2	2
May-04	Flare #2	6
June-04	Flare #2	6
	Total	**26**
Jan-04	Flare #3	1
Feb-04	Flare #3	3
Mar-04	Flare #3	15
Apr-04	Flare #3	10
May-04	Flare #3	7
June-04	Flare #3	6
	Total	**41**
Jan-04	Gas Compressor	15
Feb-04	Gas Compressor	9
Mar-04	Gas Compressor	4
Apr-04	Gas Compressor	13
May-04	Gas Compressor	21

Summary of Startup Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Startup Events**
June-04	Gas Compressor	13
	Total	**75**
	Total Startup Events:	**562**

Shutdown Events

During the reporting period covered by this report, a total of **562** GCCS shutdown events occurred. Of this total number of events, the actions taken in response to **562** shutdown events were consistent with the SSM Plan. There were **0** shutdown events that were **not** consistent with the SSM Plan. Details of the shutdown events for which actions were not consistent with the SSM Plan are provided in Attachment C.

Summary of Shutdown Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Shutdown Events**
Jan-04	IC Engine #1	19
Feb-04	IC Engine #1	12
Mar-04	IC Engine #1	15
Apr-04	IC Engine #1	5
May-04	IC Engine #1	16
June-04	IC Engine #1	5
	Total	**72**
Jan-04	IC Engine #2	12
Feb-04	IC Engine #2	11
Mar-04	IC Engine #2	11
Apr-04	IC Engine #2	9
May-04	IC Engine #2	16
June-04	IC Engine #2	4
	Total	**63**
Jan-04	IC Engine #3	19
Feb-04	IC Engine #3	36
Mar-04	IC Engine #3	19
Apr-04	IC Engine #3	6
May-04	IC Engine #3	7
June-04	IC Engine #3	5
	Total	**92**

Summary of Shutdown Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Shutdown Events**
Jan-04	IC Engine #4	14
Feb-04	IC Engine #4	17
Mar-04	IC Engine #4	19
Apr-04	IC Engine #4	10
May-04	IC Engine #4	2
June-04	IC Engine #4	2
	Total	**64**
Jan-04	IC Engine #5	20
Feb-04	IC Engine #5	15
Mar-04	IC Engine #5	12
Apr-04	IC Engine #5	14
May-04	IC Engine #5	24
June-04	IC Engine #5	4
	Total	**89**
Jan-04	Flare #1	8
Feb-04	Flare #1	7
Mar-04	Flare #1	5
Apr-04	Flare #1	4
May-04	Flare #1	6
June-04	Flare #1	10
	Total	**40**
Jan-04	Flare #2	3
Feb-04	Flare #2	3
Mar-04	Flare #2	6
Apr-04	Flare #2	2
May-04	Flare #2	6
June-04	Flare #2	6
	Total	**26**
Jan-04	Flare #3	1
Feb-04	Flare #3	3
Mar-04	Flare #3	15
Apr-04	Flare #3	10
May-04	Flare #3	7
June-04	Flare #3	6
	Total	**41**
Jan-04	Gas Compressor	15
Feb-04	Gas Compressor	9

Summary of Shutdown Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Shutdown Events**
Mar-04	Gas Compressor	4
Apr-04	Gas Compressor	13
May-04	Gas Compressor	21
June-04	Gas Compressor	13
	Total	**75**
	Total Shutdown Events:	**562**

Malfunction Events

During the reporting period covered by this report, a total of **235** GCCS malfunction events occurred. Of this total number of events, the actions taken in response to **235** malfunction events were consistent with the SSM Plan. There were **0** malfunction events that were **not** consistent with the SSM Plan, but there was no exceedance of any applicable emission limitation. There were **0** malfunction events that were **not** consistent with the SSM Plan and an exceedances of an applicable emission limitation did occur or may have occurred. Details of the shutdown events for which actions were not consistent with the SSM Plan are provided in Attachment D.

Summary of Malfunction Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Malfunction Events**
Jan-04	IC Engine #1	6
Feb-04	IC Engine #1	0
Mar-04	IC Engine #1	9
Apr-04	IC Engine #1	3
May-04	IC Engine #1	14
June-04	IC Engine #1	2
	Total	**32**
Jan-04	IC Engine #2	4
Feb-04	IC Engine #2	0
Mar-04	IC Engine #2	3
Apr-04	IC Engine #2	7
May-04	IC Engine #2	16
June-04	IC Engine #2	2
	Total	**32**
Jan-04	IC Engine #3	4
Feb-04	IC Engine #3	0
Mar-04	IC Engine #3	12

Summary of Malfunction Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Malfunction Events**
Apr-04	IC Engine #3	3
May-04	IC Engine #3	6
June-04	IC Engine #3	2
	Total	**25**
Jan-04	IC Engine #4	2
Feb-04	IC Engine #4	1
Mar-04	IC Engine #4	12
Apr-04	IC Engine #4	7
May-04	IC Engine #4	0
June-04	IC Engine #4	0
	Total	**22**
Jan-04	IC Engine #5	3
Feb-04	IC Engine #5	0
Mar-04	IC Engine #5	5
Apr-04	IC Engine #5	12
May-04	IC Engine #5	23
June-04	IC Engine #5	2
	Total	**45**
Jan-04	Flare #1	8
Feb-04	Flare #1	4
Mar-04	Flare #1	1
Apr-04	Flare #1	2
May-04	Flare #1	5
June-04	Flare #1	6
	Total	**26**
Jan-04	Flare #2	3
Feb-04	Flare #2	1
Mar-04	Flare #2	4
Apr-04	Flare #2	0
May-04	Flare #2	4
June-04	Flare #2	0
	Total	**12**
Jan-04	Flare #3	1
Feb-04	Flare #3	2
Mar-04	Flare #3	12
Apr-04	Flare #3	5
May-04	Flare #3	4

Summary of Malfunction Events that were consistent with the SSM Plan		
Month	**Affected Equipment**	**Number of Malfunction Events**
June-04	Flare #3	0
	Total	**24**
Jan-04	Gas Compressor	4
Feb-04	Gas Compressor	3
Mar-04	Gas Compressor	0
Apr-04	Gas Compressor	5
May-04	Gas Compressor	4
June-04	Gas Compressor	1
	Total	**17**
	Total Malfunction Events:	**235**

SSM Plan Revisions

No revisions were made to the SSM Plan during this reporting period. A copy of the SSM Plan and all revisions/addenda are kept on file at the facility for at least five (5) years and are available to appropriate regulatory agency personnel for inspection.

We trust that the information provided herein addresses the semi-annual SSM reporting requirements of 40 CFR Part 60 Subparts A and AAAA. Please do not hesitate to contact Bruce Matlock at (818) 252-3202 with any questions or comments.

Sincerely,
Waste Management, Inc.

Bruce Matlock
Compliance Health and Safety Supervisor

Cc: Mr. Ted Kowalczyk
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, California 91765

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4182
(909) 396-2000 • http://www.aqmd.gov

SUBJECT: **NOTICE OF COMPLETION OF A DRAFT ENVIRONMENTAL ASSESSMENT**

PROJECT TITLE: **PROPOSED AMENDED RULE 1122: SOLVENT DEGREASERS**

In accordance with the California Environmental Quality Act (CEQA), the South Coast Air Quality Management District (SCAQMD), as the Lead Agency, prepared this Draft Environmental Assessment (EA) pursuant to its certified regulatory program (SCAQMD Rule 110), which assesses potential environmental impacts that may result from implementing the proposed project identified above. The Draft EA finds that there will be no significant adverse environmental impacts from implementing the proposed project.

This letter and the Notice of Completion (NOC) are not SCAQMD applications or forms requiring a response from you. Their purpose is simply to provide information to you on the above project and allow public agencies and the public the opportunity to obtain, review and comment on the environmental analysis. If the proposed project has no bearing on you or your organization, no action on your part is necessary.

The Draft EA and other relevant documents may be obtained by calling the SCAQMD Public Information Center at (909) 396-2039 or by accessing the SCAQMD's CEQA website at http://www.aqmd.gov/ceqa/aqmd.html Comments focusing on your area of expertise, your agency's area of jurisdiction, or issues relative to the environmental analysis should be addressed to Mr. Michael Krause (c/o CEQA Section, Planning, Rule Development and Area Sources) at the address shown above, or sent by FAX to (909) 396-3324 or by e-mail to mkrause@aqmd.gov during a 30-day public review and comment period. Comments must be received no later than 5:00 PM on August 27, 2004. Please include the name and phone number of the contact person for your agency. Questions relative to the proposed amendments to Rule 1122 should be directed to Mr. Rizaldy Calungcagin at (909) 396-2315.

The Public Hearing for the proposed amended rule is scheduled for October 1, 2004. (Note: Public Hearing dates are subject to change. Please refer to the AQMD website Calendar of Events for current schedule – http://www.aqmd.gov)

Date: July 29, 2004 **Signature:** Steve Smith

Steve Smith, Ph.D.
Program Supervisor
Planning, Rules, and Area Sources

Reference: California Code of Regulations, Title 14, Sections 15082(a), 15103, and 15375

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

21865 Copley Drive, Diamond Bar, CA 91765-4182

NOTICE OF COMPLETION OF A DRAFT ENVIRONMENTAL ASSESSMENT

Project Title:

Draft Environmental Assessment: Proposed Amended Rule 1122- Solvent Degreasers

Project Location:

South Coast Air Quality Management District (SCAQMD) area of jurisdiction consisting of the four-county South Coast Air Basin (Orange County and the non-desert portions of Los Angeles, Riverside and San Bernardino counties), and the Riverside County portions of the Salton Sea Air Basin and the Mojave Desert Air Basin

Description of Nature, Purpose, and Beneficiaries of Project:

The SCAQMD is proposing to add language in the rule that allows for the continued use, beyond January 1, 2005, of degreasers with open-top surface areas less than one square foot, or with a capacity less than two gallons only for certain applications, provided such degreasers are vented to a VOC emission control system capable of collecting at least 90 percent, by weight, of the emissions generated by the solvent degreaser and a destruction efficiency of at least 95 percent by weight. Further, PAR 1122 establishes a permanent exemption for small-sized degreasers used for research and development programs, or laboratory tests in quality assurance laboratories, and exempts batch-loaded cold cleaners and vapor degreasers with open-top surface areas less than one square foot or with a capacity of less than two gallons used for cleaning electronic parts designed to travel 100 miles above the earth. The environmental analysis concluded that the impact from foregone VOC emission reductions due to the permanent exemption would not exceed the SCAQMD's significance thresholds and therefore is considered not significant. No other environmental topic areas were identified that could be significantly adversely affected by the proposed amended rule.

Lead Agency:	**Division:**
South Coast Air Quality Management District	Planning, Rule Development and Area Sources

Draft EA and all supporting documentation are available at:	**or by calling:**	**or by accessing the SCAQMD's website at:**
SCAQMD Headquarters 21865 Copley Drive Diamond Bar, CA 91765	(909) 396-2039	http://www.aqmd.gov/ceqa/aqmd.html

The Public Notice of Completion is provided through the following:

☑ Los Angeles Times (July 29, 2004) ☑ AQMD Website ☑ AQMD Permit Holders, Technical Advisory Group & Public Workshop Attendees

Draft EA Review Period:

July 29, 2004 – August 27, 2004

Scheduled Public Meeting Dates: *(date subject to change)*

SCAQMD Governing Board Hearing: October 1, 2004, 9:00 a.m.; SCAQMD Headquarters

CEQA Contact Person:	**Phone Number:**	**Fax Number:**	**Email:**
Mr. Michael Krause	(909) 396-2706	(909) 396-3324	<mkrause@aqmd.gov>

Direct Questions on Proposed Amended Rule to:	**Phone Number:**	**Fax Number:**	**Email:**
Mr. Rizaldy Calungcagin	(909) 396-2315	(909) 396-3324	<rcalungcagin@aqmd.gov>

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

August 11, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including July 26, 2004 through August 02, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including July26 through August 02, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

August 24, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including August 02, 2004 through August 12, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including August 02 through August 12, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

September 09, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for August 21, 2004**
Bradley Landfill and Recycling Center (Facility I.D. No 050310)

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for August 21, 2004.

No excess emissions were released during the attached event.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

BOARD MEETING DATE: September 3, 2004 AGENDA NO. 2

PROPOSAL: Set Public Hearing October 1, 2004 to Amend Rule 1122 - Solvent Degreasers

SYNOPSIS: Rule 1122 currently provides a limited exemption that allows the use of high-VOC solvents for small-sized degreasers that are used in certain types of cleaning applications. This exemption will expire after January 1, 2005. The proposed amendment to Rule 1122 will allow a permanent, conditional exemption for certain specialized cleaning categories. Minor clarifications are also being proposed. (Review: Stationary Source Committee, August 27, 2004)

The complete text of the proposed amendments, staff reports and other supporting documents are available from the District's Public Information Center, (909) 396-2550 and on the Internet (www.aqmd.gov).

RECOMMENDED ACTION:
Set a Public Hearing October 1, 2004 to amend Rule 1122 - Solvent Degreasers.

Barry R. Wallerstein, D.Env.
Executive Officer

sm

BRADLEY LANDFILL AND RECYCLING CENTER
A WASTE MANAGEMENT COMPANY

9081 Tujunga Avenue
Sun Valley, California 91352
(818) 767-6180
(818) 252-3239 Fax
(818) 252-3107 24-Hour Community Hotline

September 20, 2004

Mr. Larry Israel
Air Quality Inspector
South Coast Air Quality Management District
21865 E. Copley Dr.
Diamond Bar, CA 91765

Re: **Submittal of Breakdown Form 500-N for the period including September 12, 2004 through September 14, 2004, Bradley Landfill and Recycling Center (Facility I.D. No 050310)**

Dear Larry,

Waste Management Recycling and Disposal Services of California, Inc., the owner/operator of the Bradley Landfill and Recycling Center (BLRC) is respectfully submitting the attached Breakdown Form 500-N for the period including September 12 through September 14, 2004.

No excess emissions were released during the attached events.

If you have any questions concerning this submittal, please contact me at (818) 252-3202.

Sincerely,

Bruce Matlock

Bruce Matlock
Compliance Health and Safety Supervisor

Encl.

cc: f/SCAQMD Correspondence

WASTE MANAGEMENT

HAND DELIVERED

September 24, 2004

Ms. Cynthia Ravenstein
MSRC Contracts Administrator
South Coast Air Quality Management District
21865 East Copley Drive
Diamond Bar, CA 91765

SUBJECT: Waste Management Recycling and Disposal Services of California (Bradley Landfill and the Sun Valley Hauling Company) in Sun Valley, California

Dear Ms. Ravenstein:

This letter serves as Waste Management Recycling and Disposal Services of California's (Bradley Landfill and the Sun Valley Hauling Company) affidavit as required in the South Coast Air Quality Management District/Mobile Source Air Pollution Reduction Review Committee's Diesel Exhaust After-Treatment Program for On-Road and Off-Road Heavy-Duty Vehicles.

Our current vendor, Petrolock can supply ultra low sulfur diesel fuel which meets both CARB and SCAQMD specifications. This supplier has indicated the availability of their fuel for Bradley's future emission reduction projects under this program.

If you have any questions or require additional information please call Kit Cole, Director of External and Environmental Affairs, at (818) 252-3200 or our air quality consultant, Erin Sheehy at (310) 664-1396.

Sincerely,

Doug Corcoran
Director of Operations